

FIG. 1A

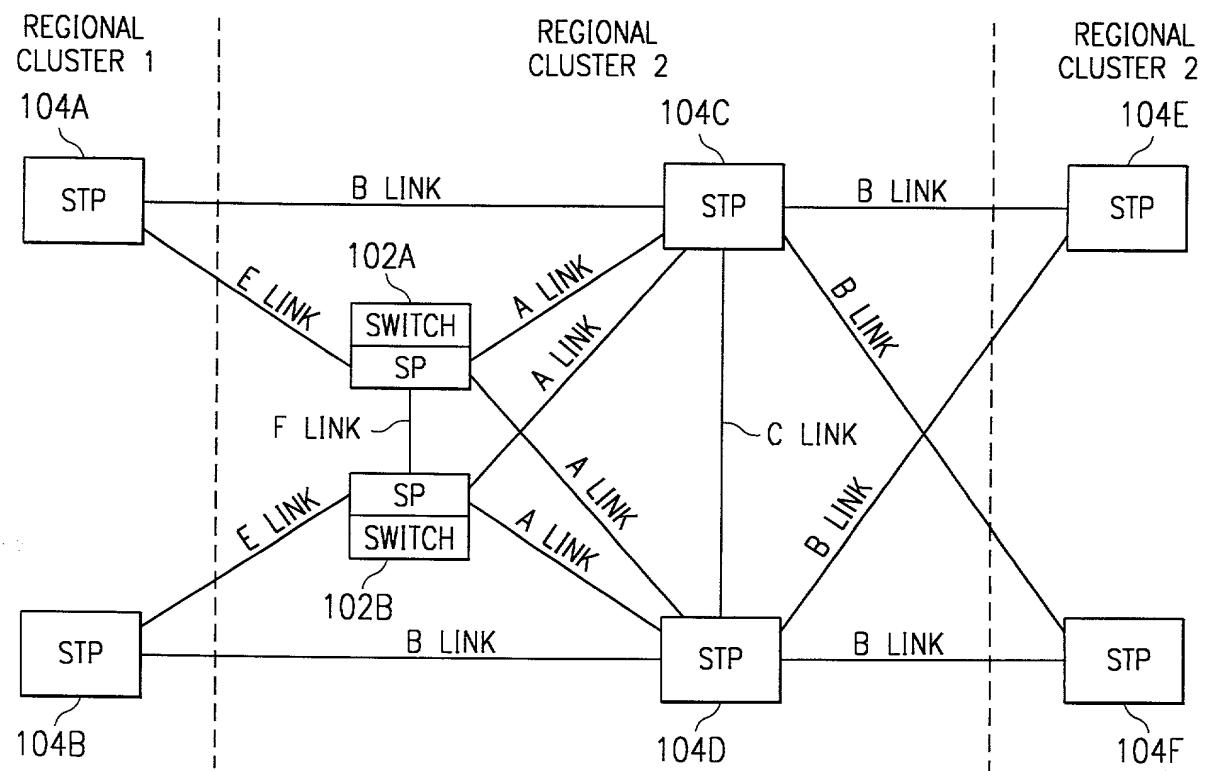


FIG. 1B

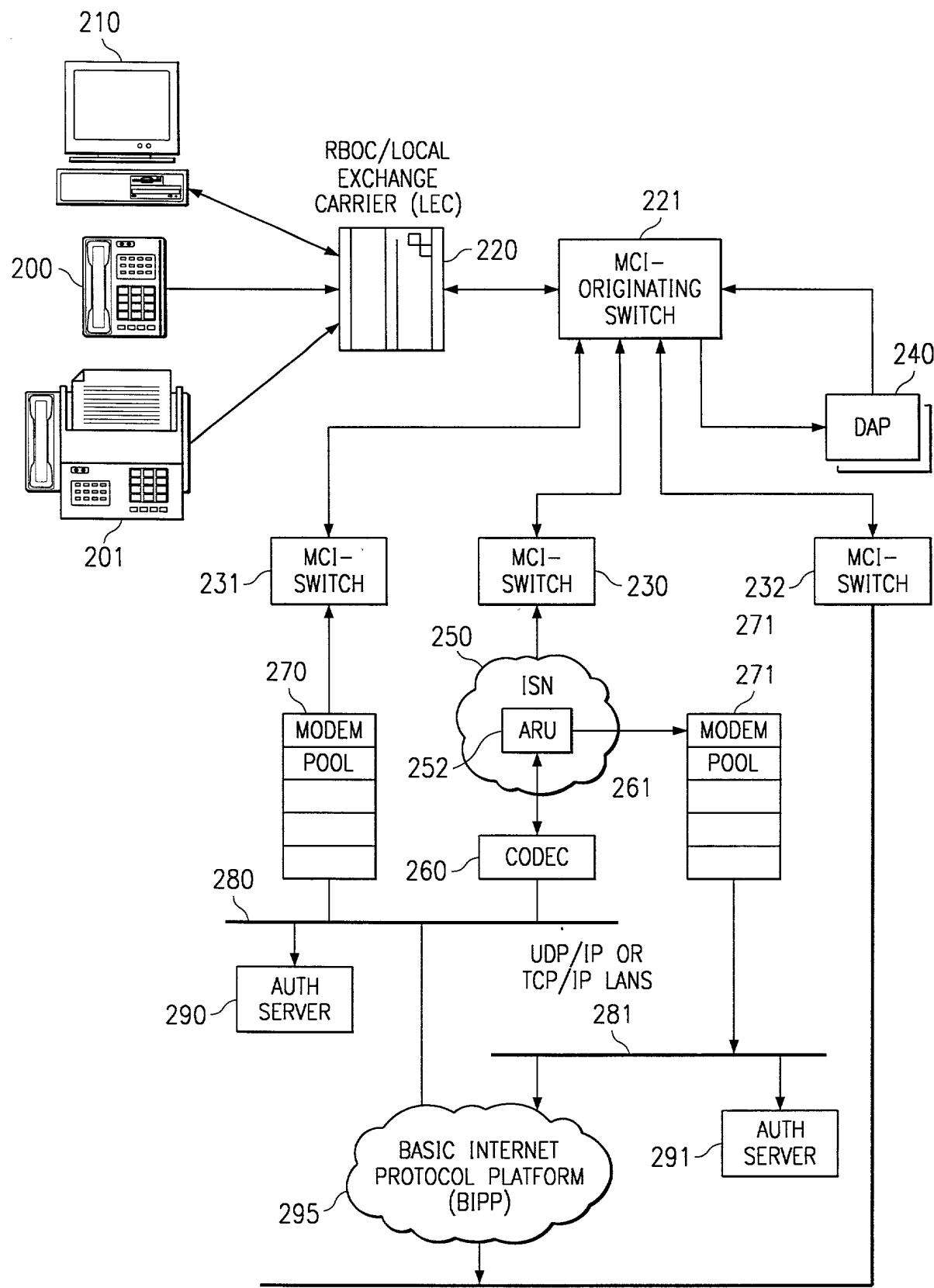


FIG. 1C

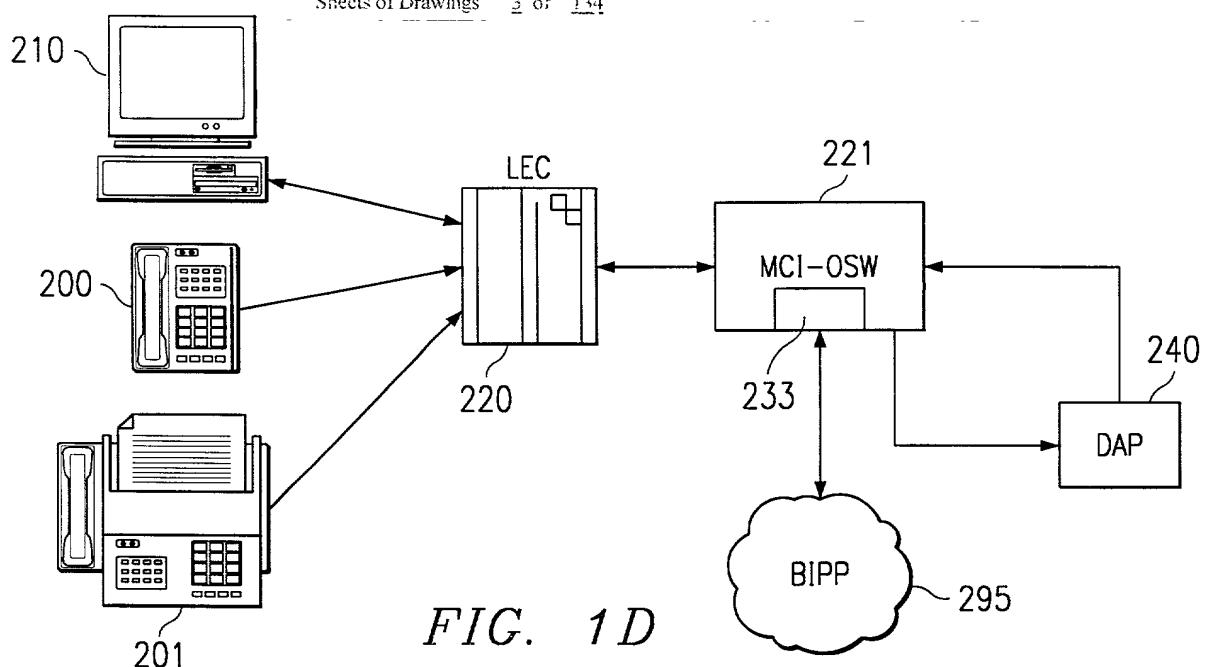


FIG. 1D

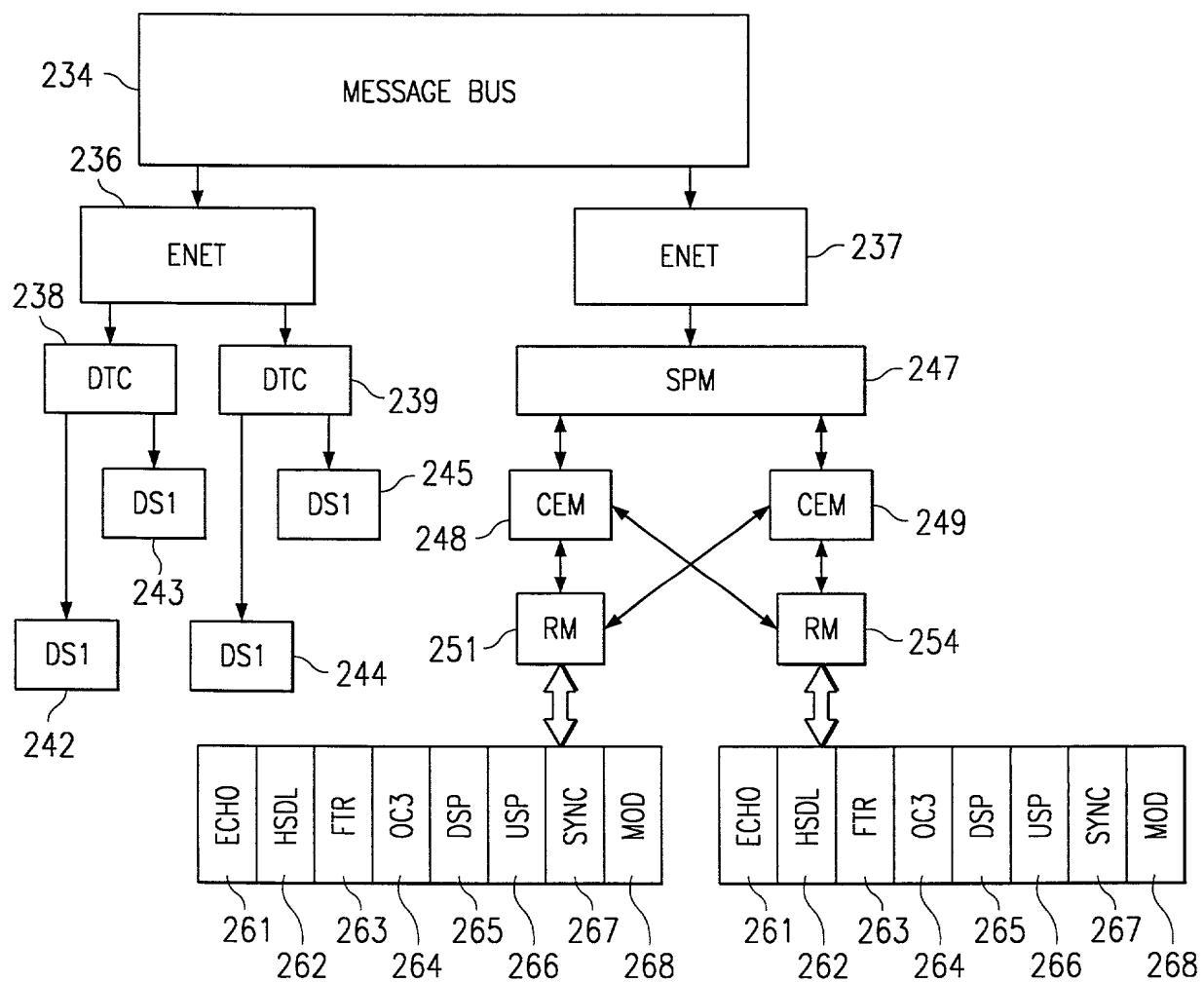
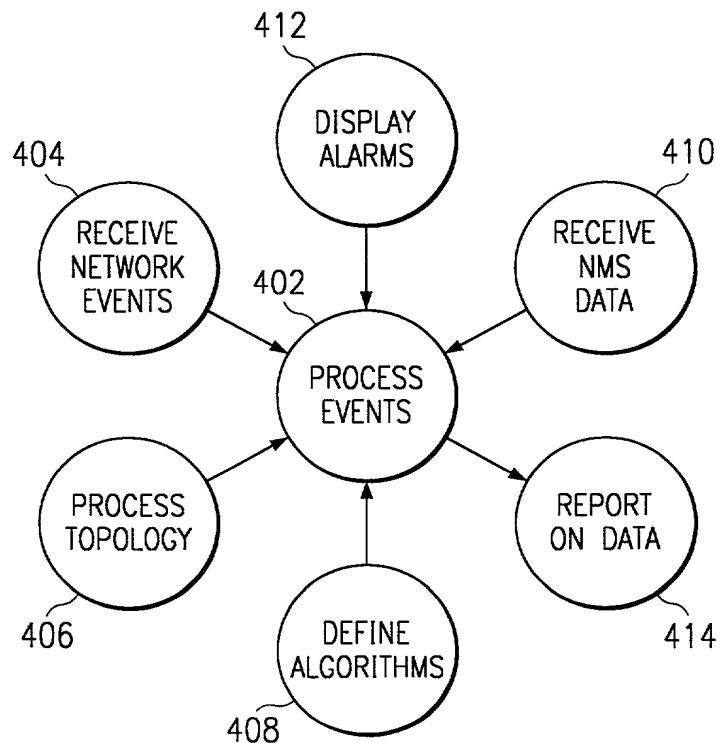
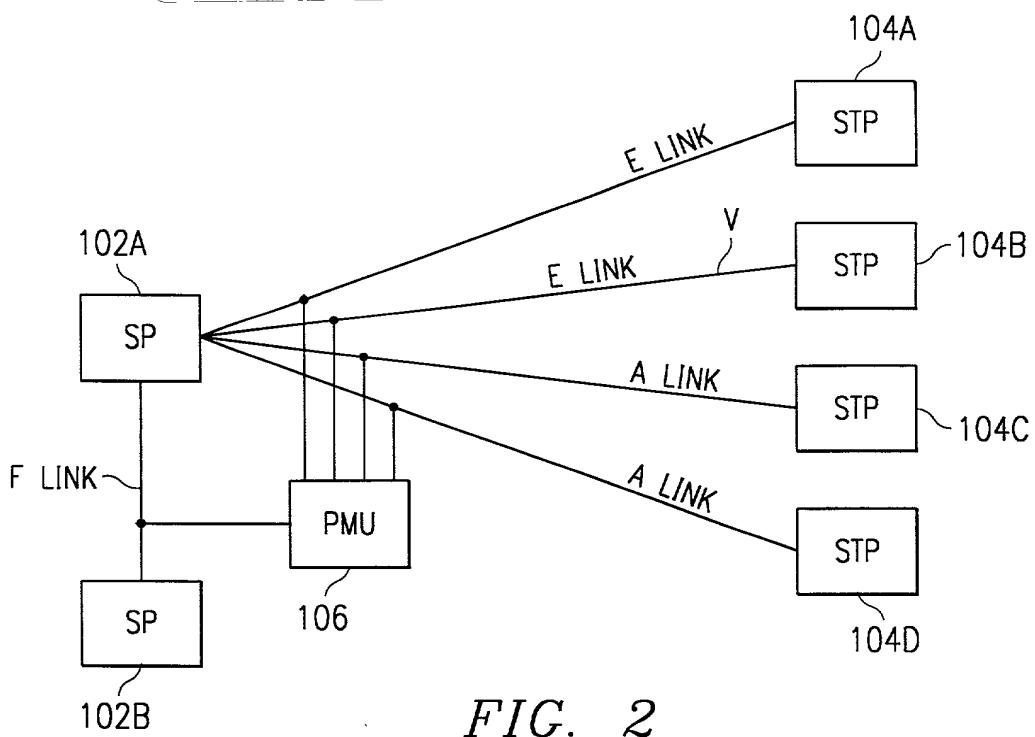


FIG. 1E



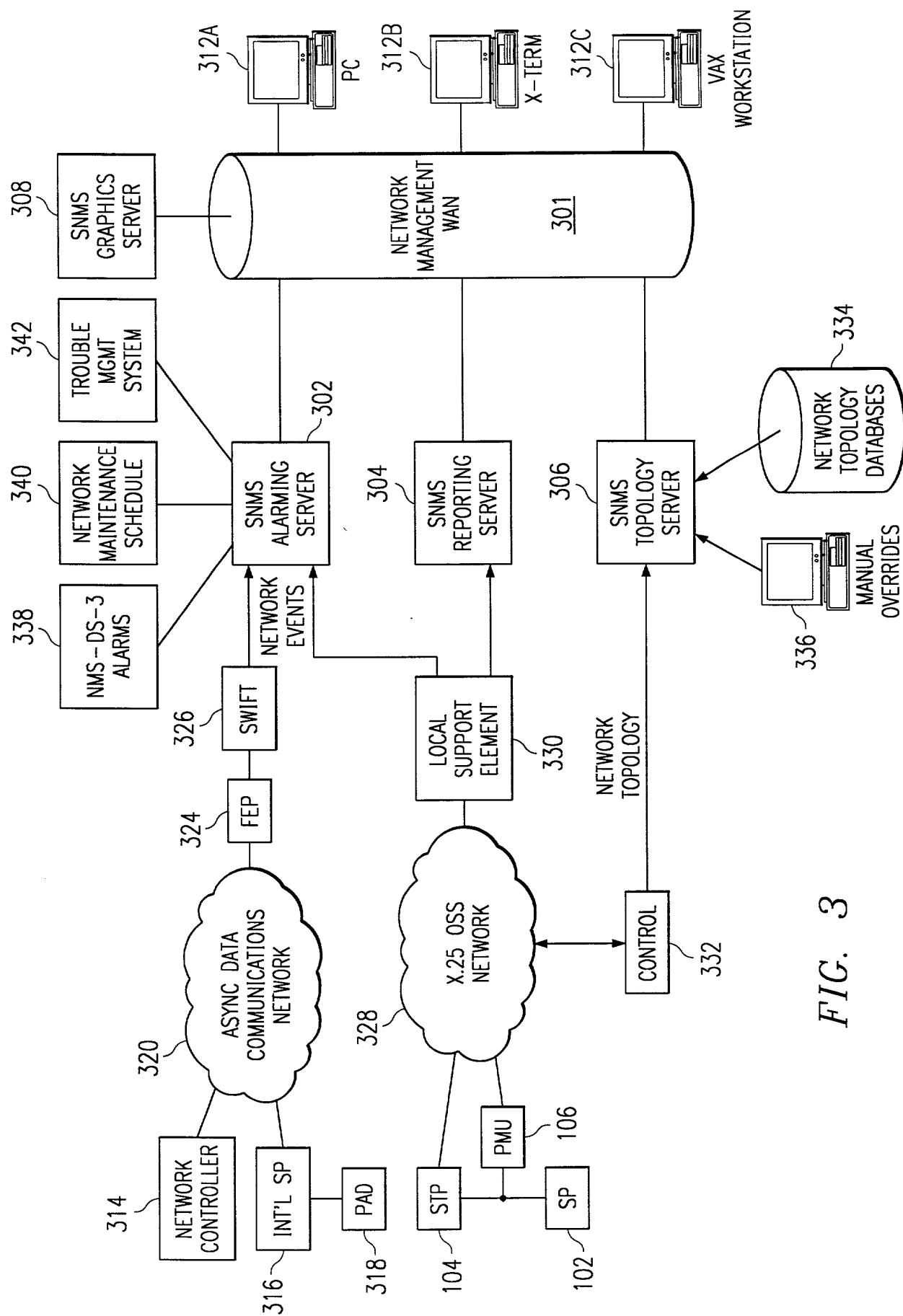


FIG. 3

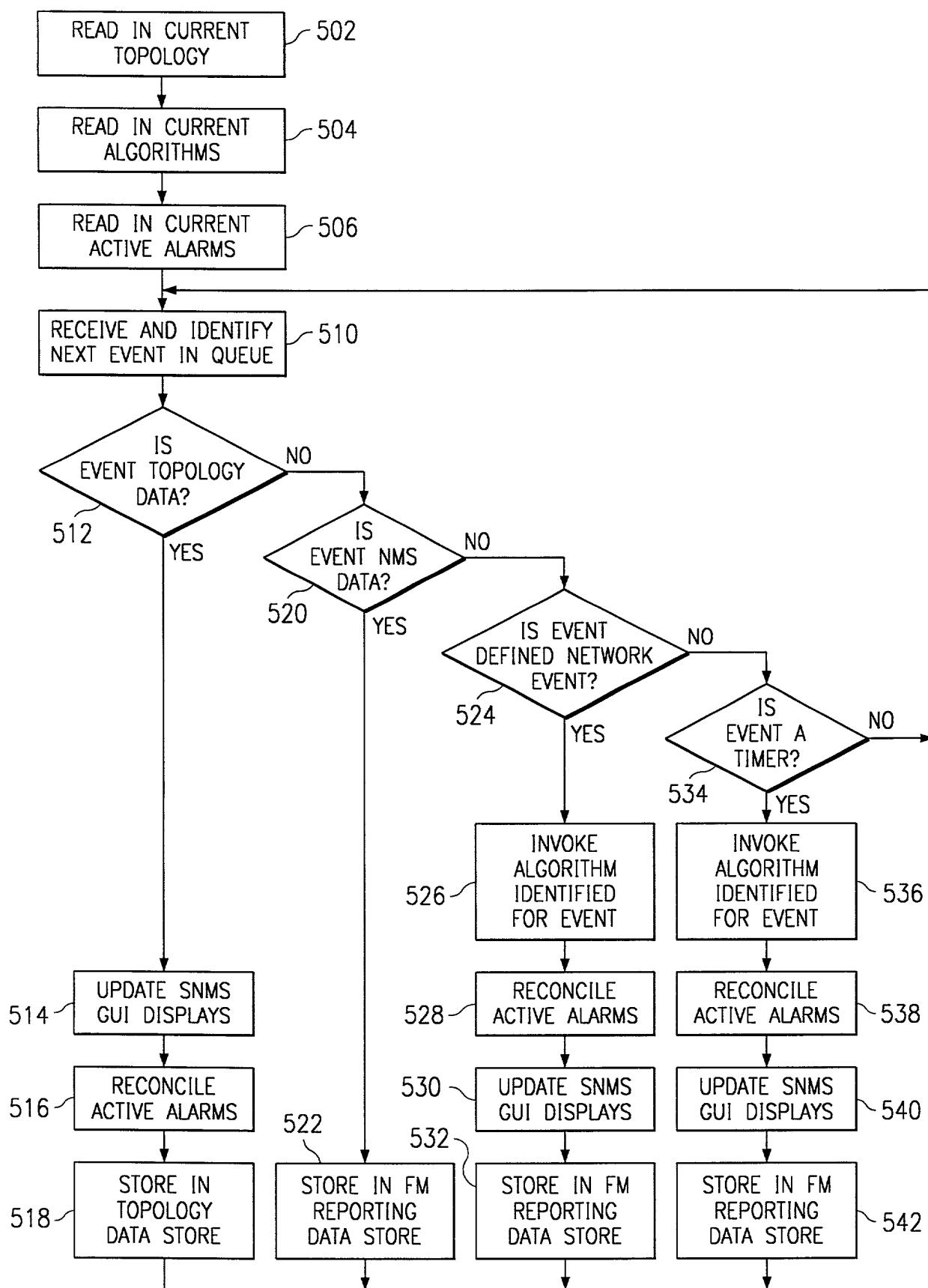


FIG. 5

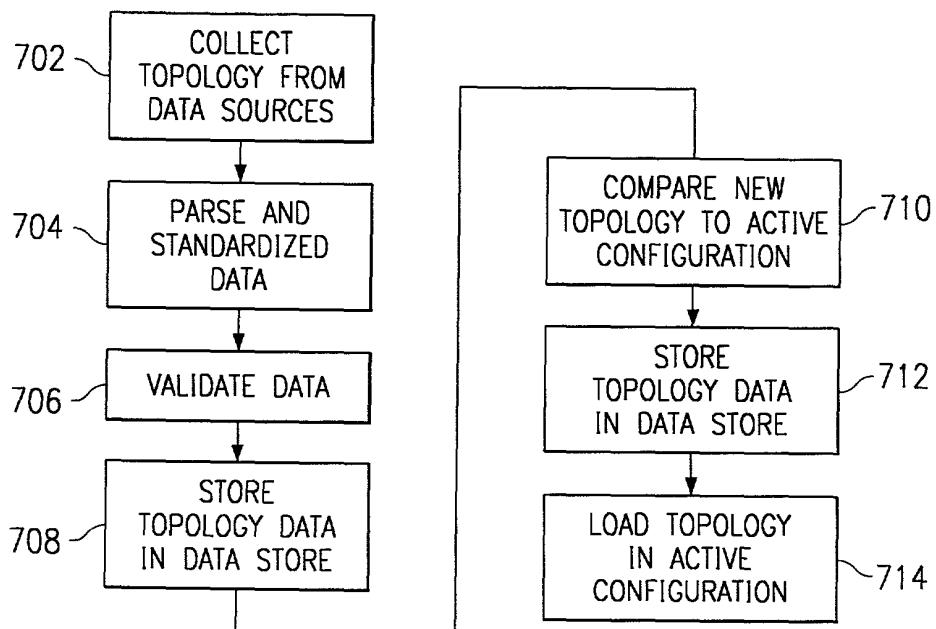
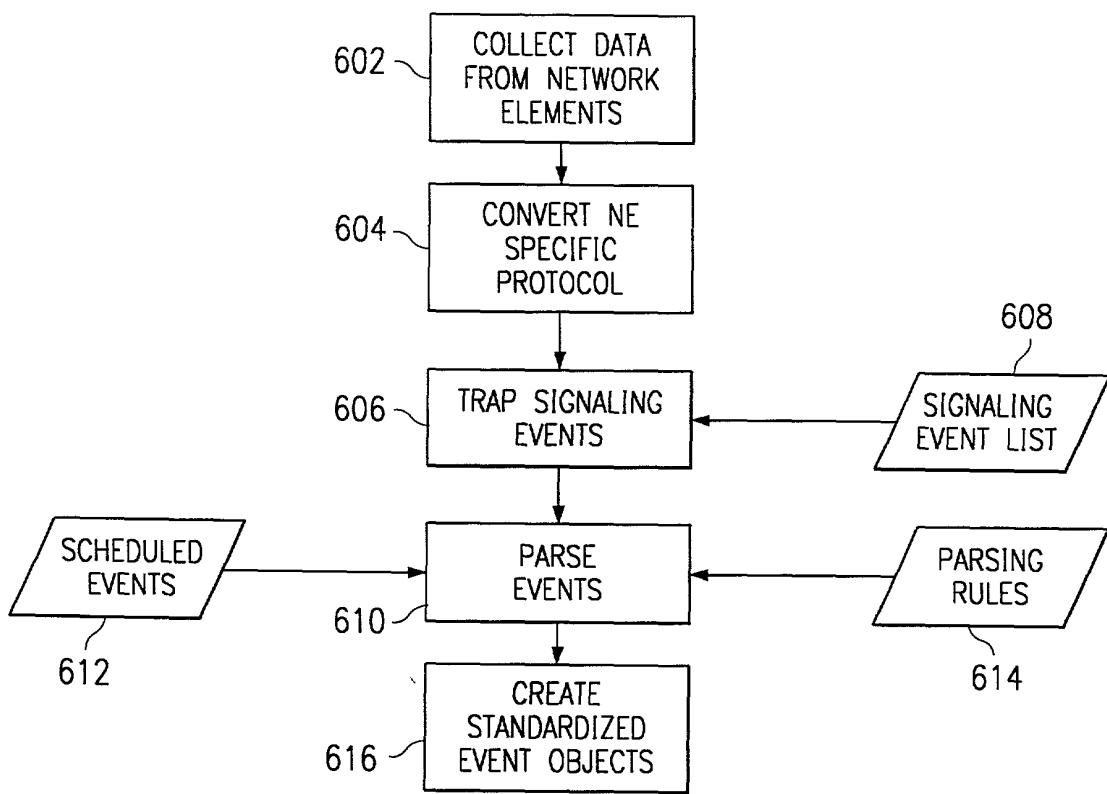


FIG. 7

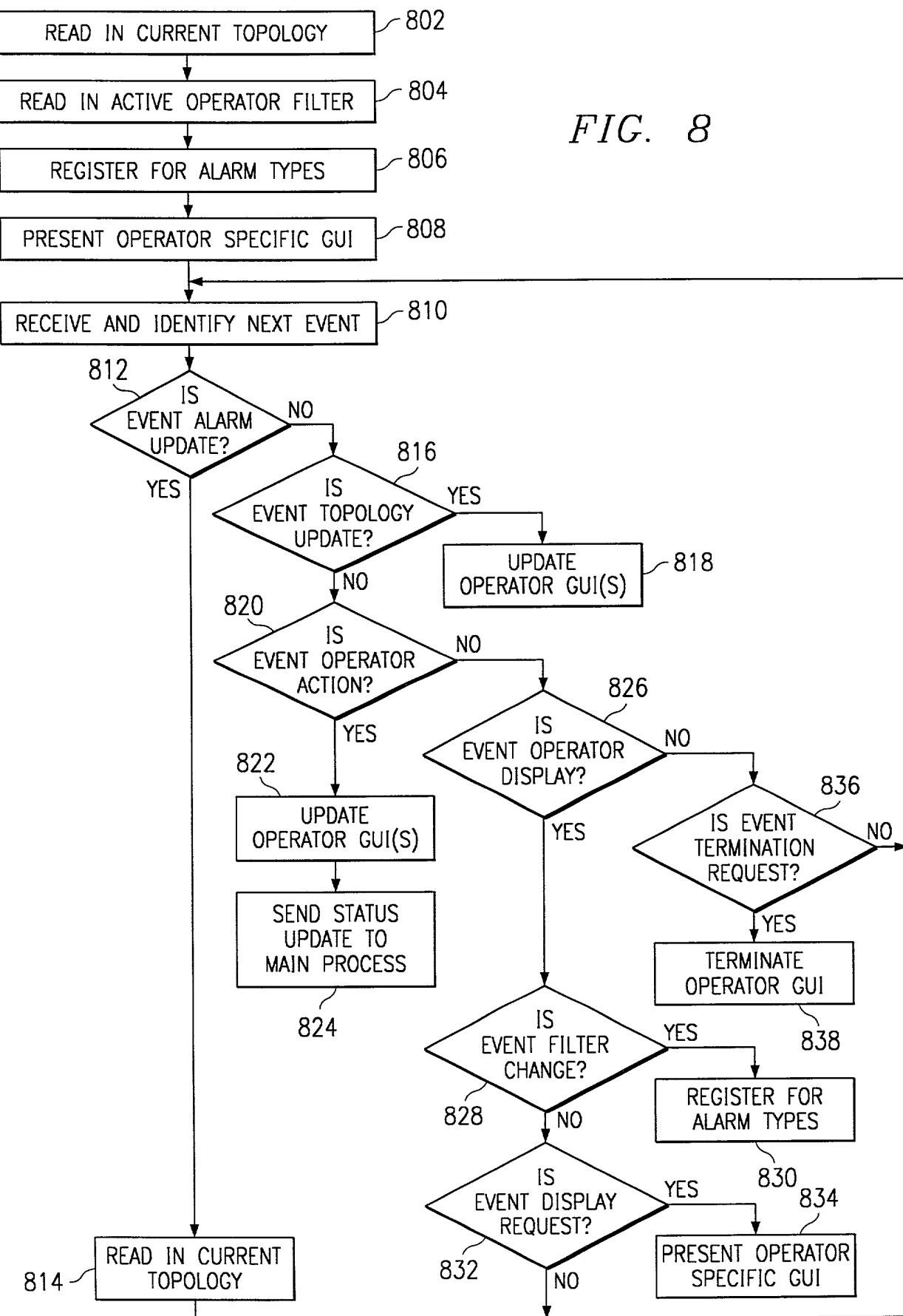


FIG. 8

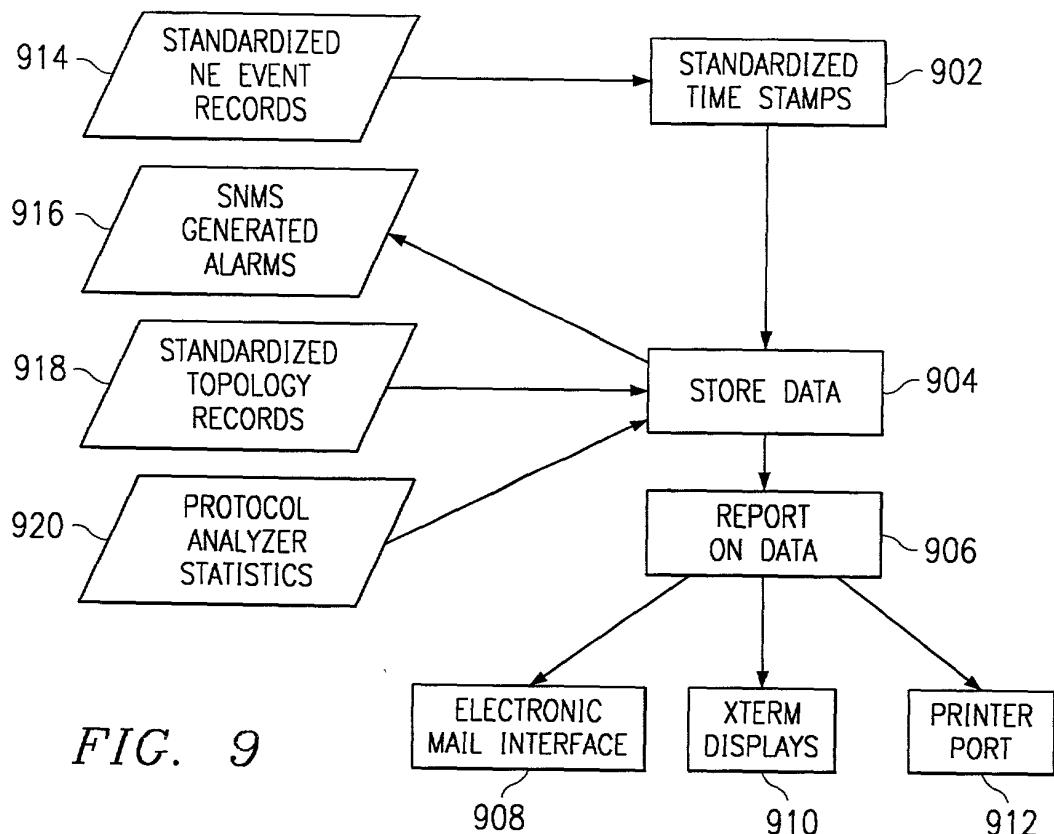


FIG. 9

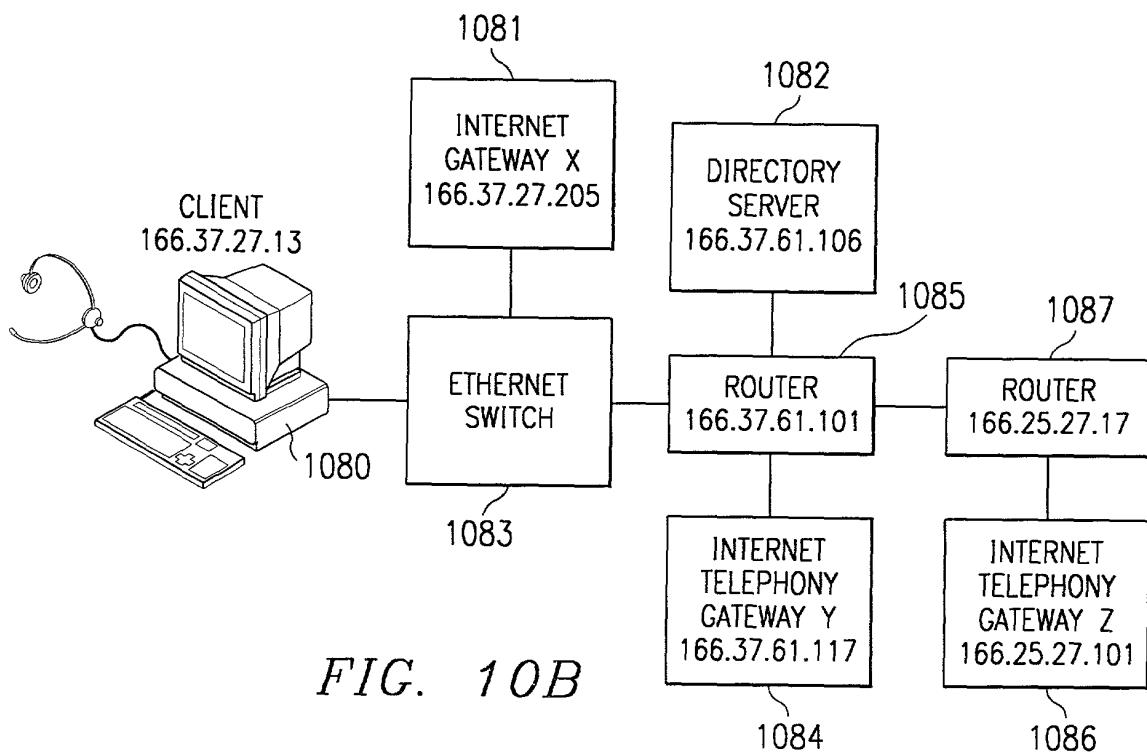


FIG. 10B

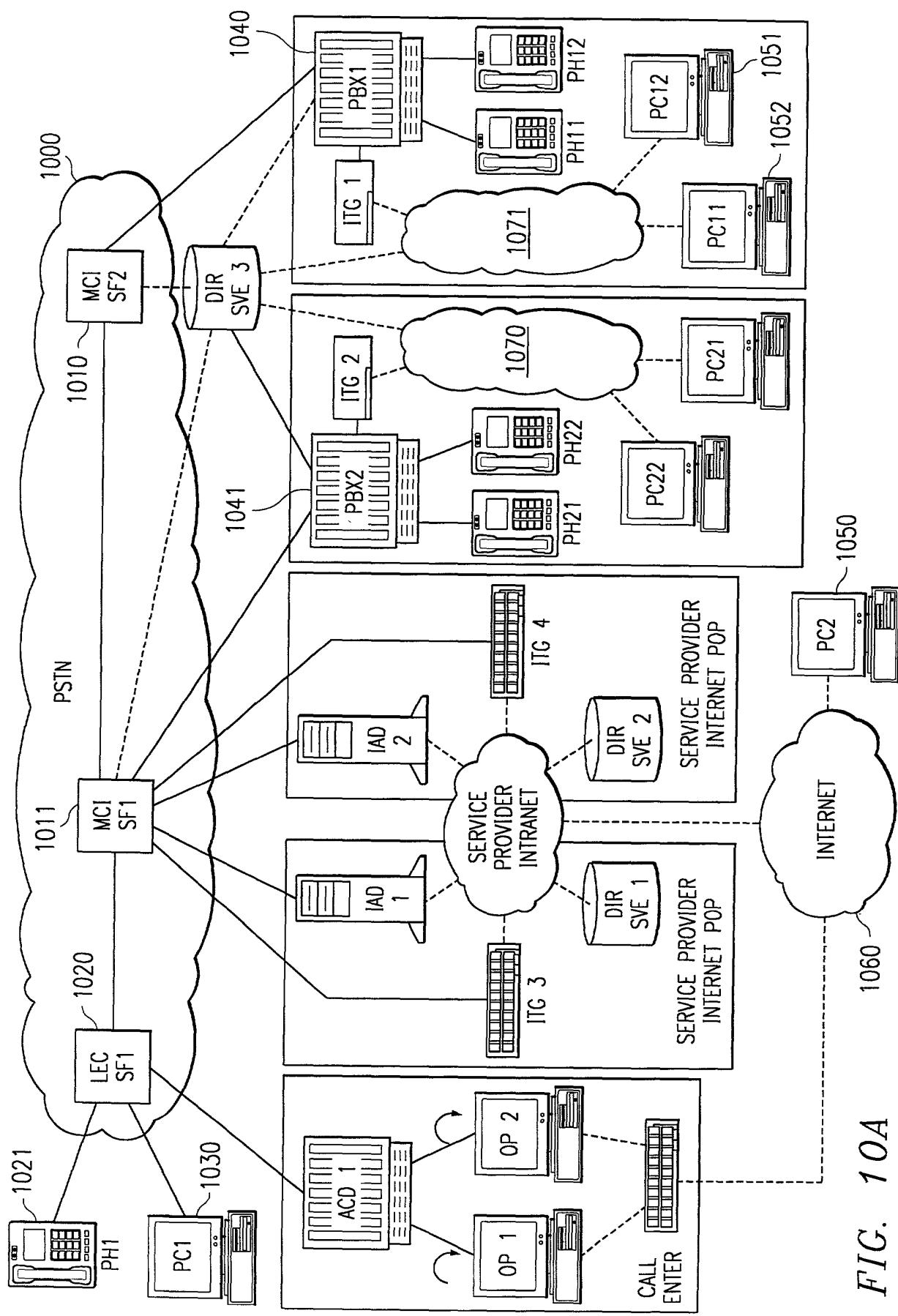


FIG. 10A

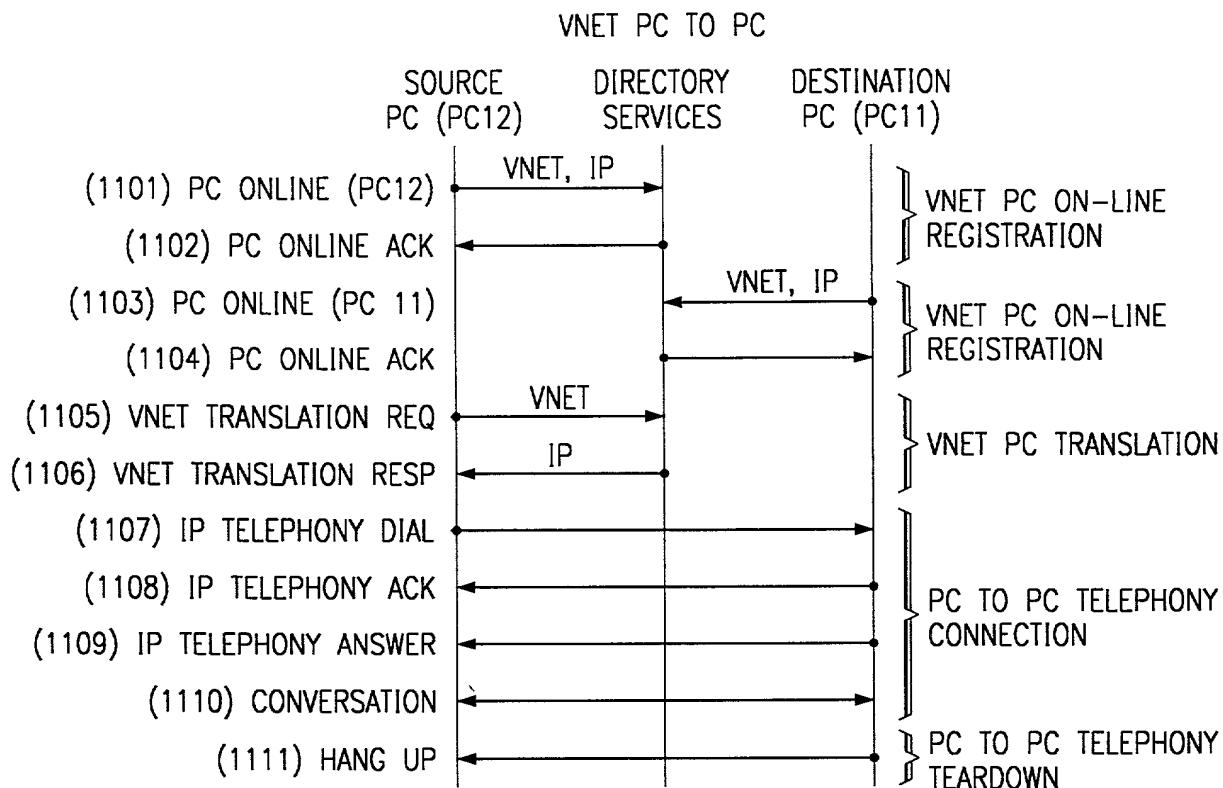


FIG. 11

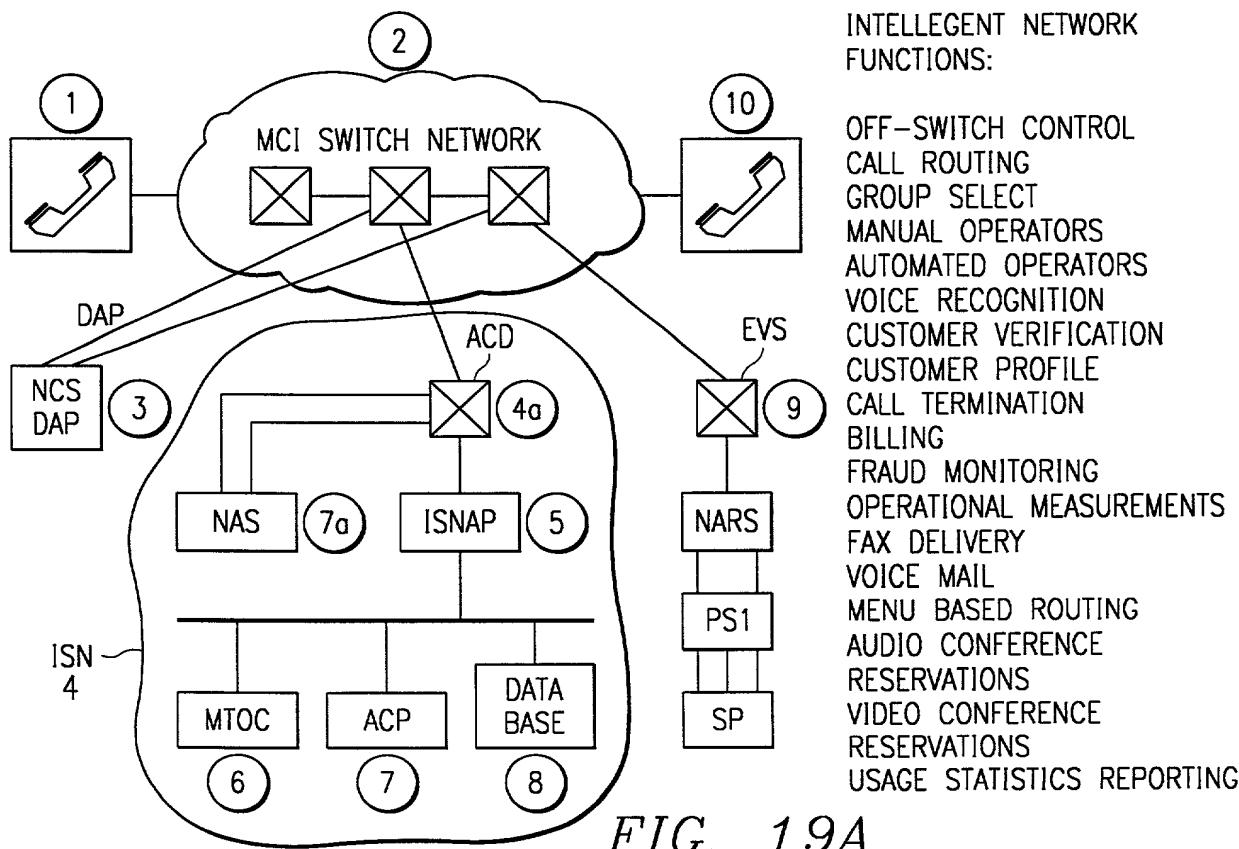


FIG. 19A

VNET PC TO PHONE 1  
 (ITG AS AN OUT OF NETWORK ELEMENT, USING PSTN)

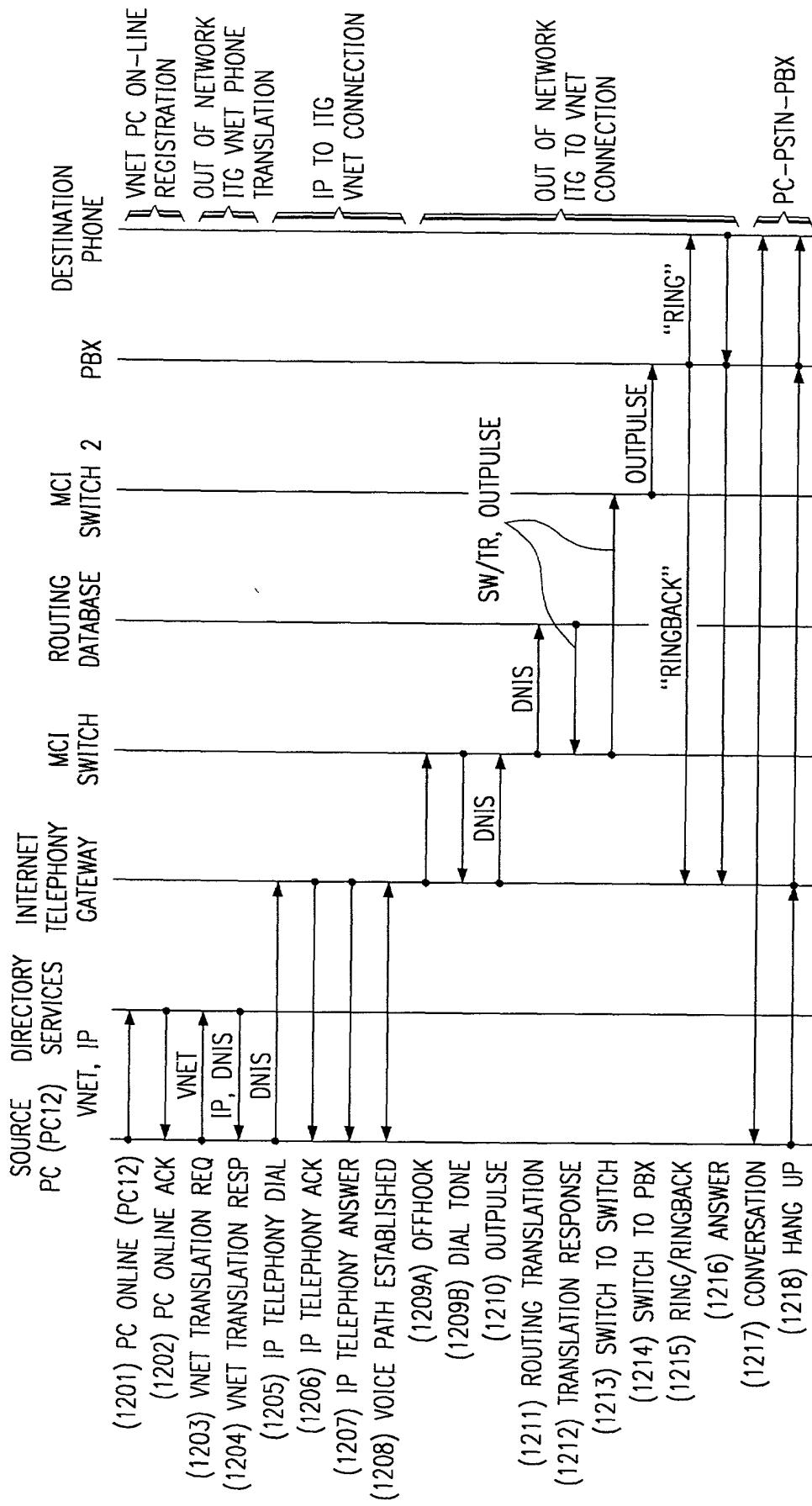


FIG. 12

VNET PC TO PHONE 2  
 (ITG AS AN OUT OF NETWORK ELEMENT, WITH PBX/INTERNET INTEGRATION)

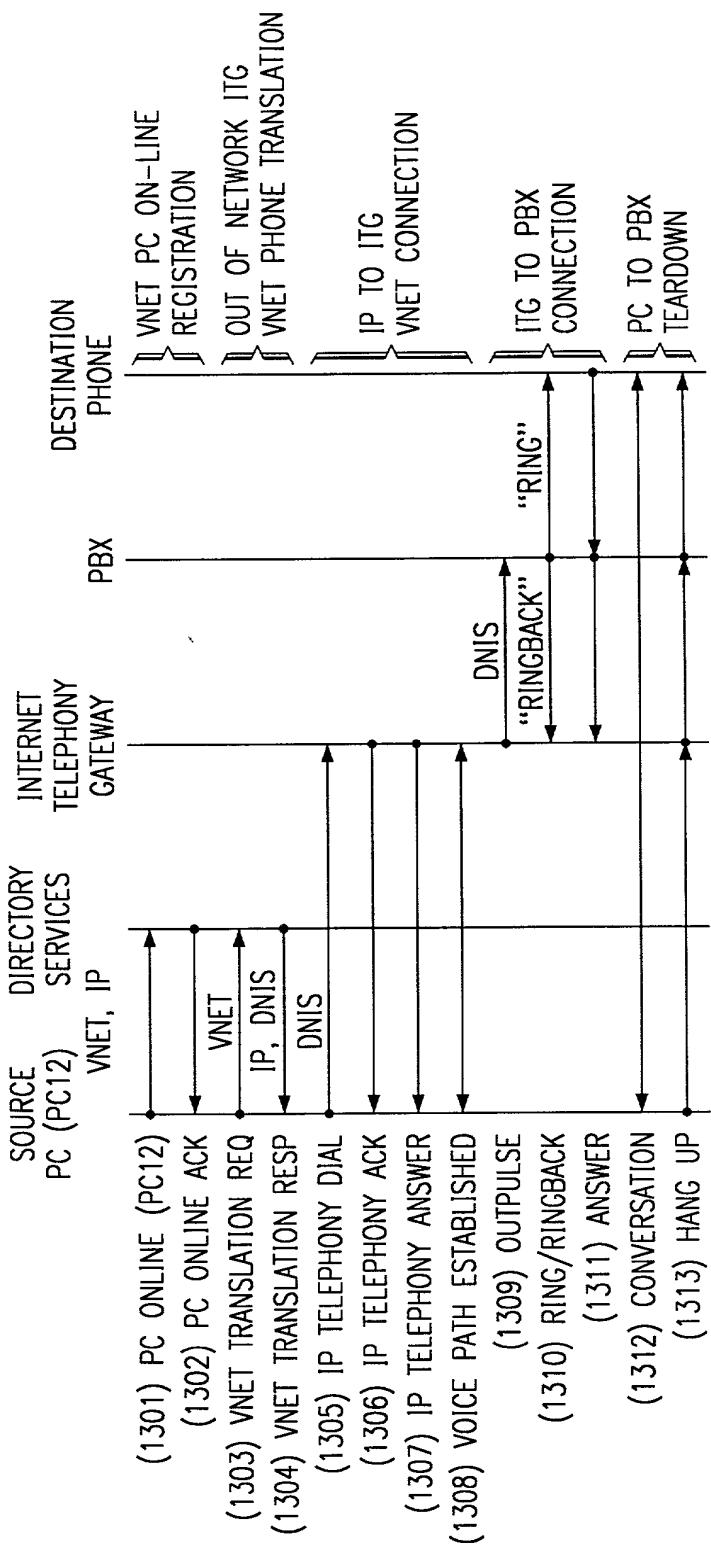


FIG. 13

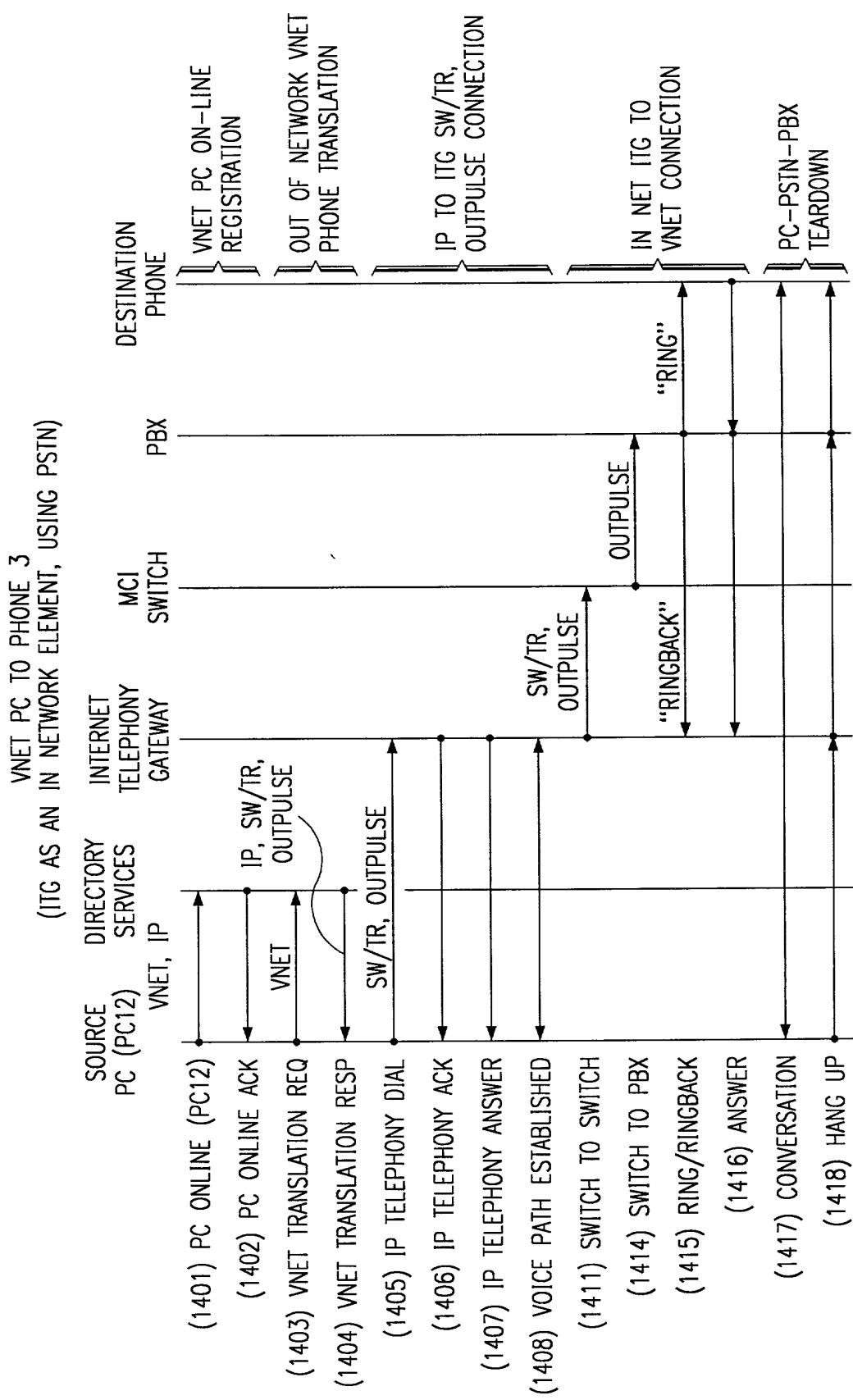
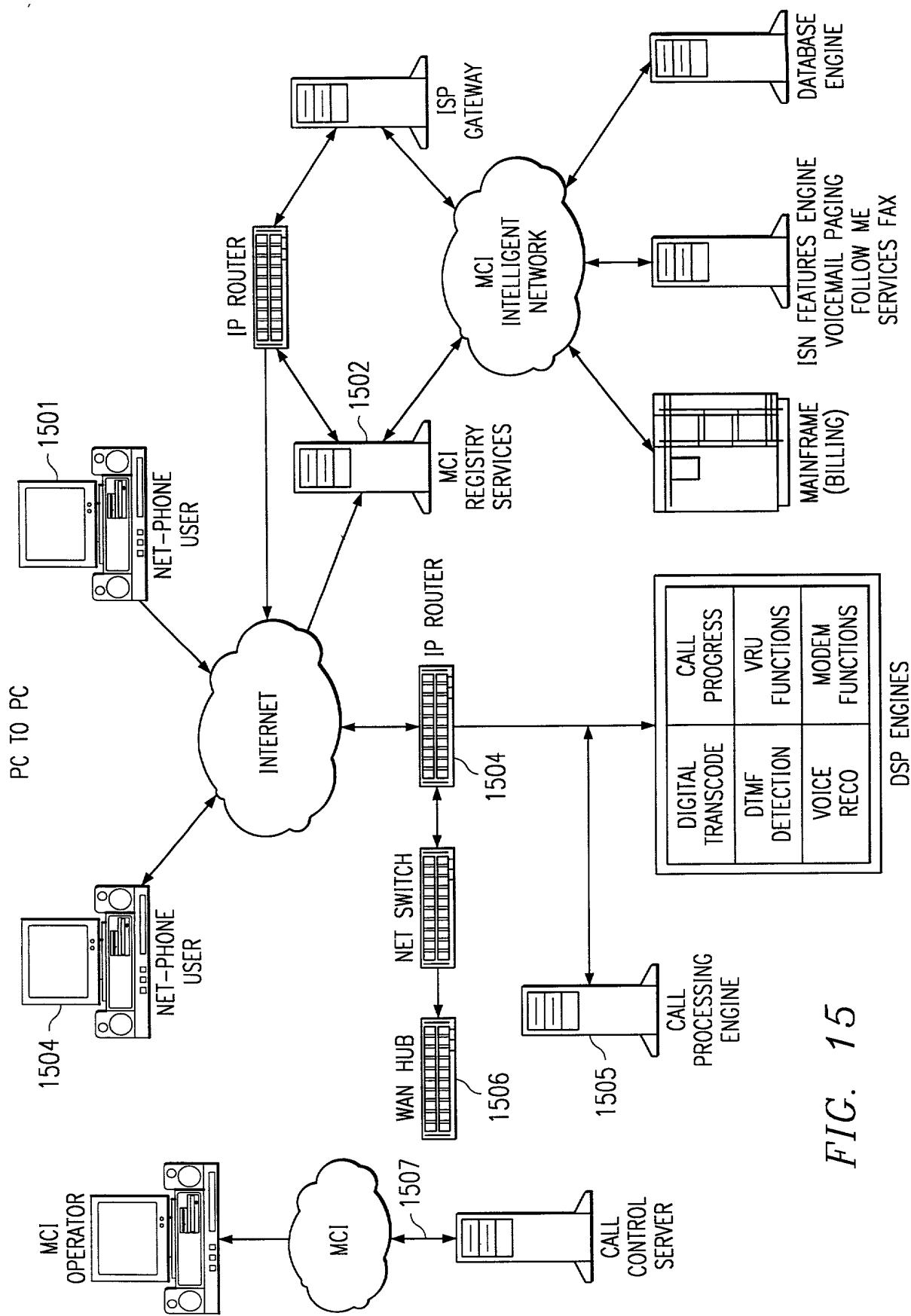
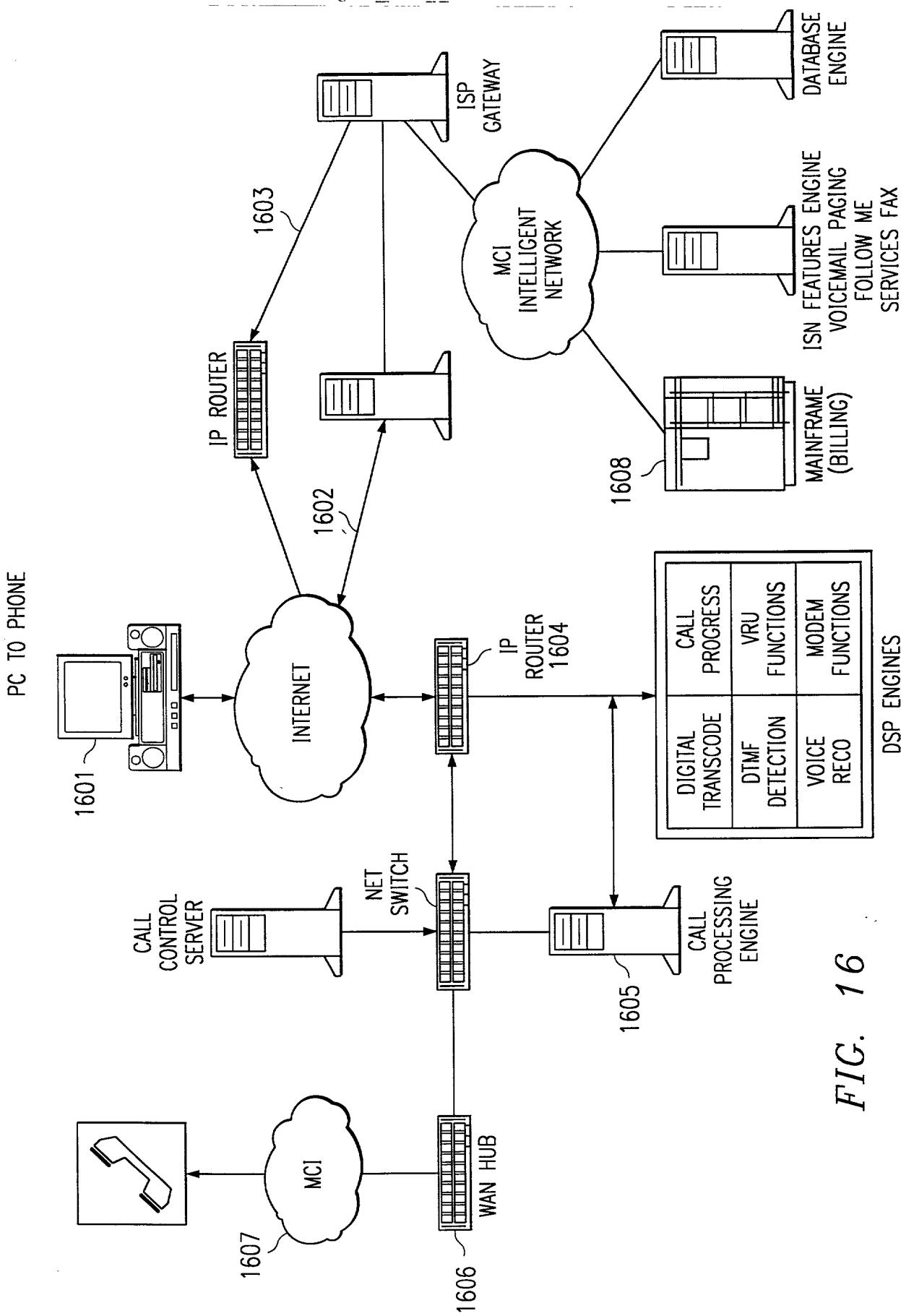


FIG. 14





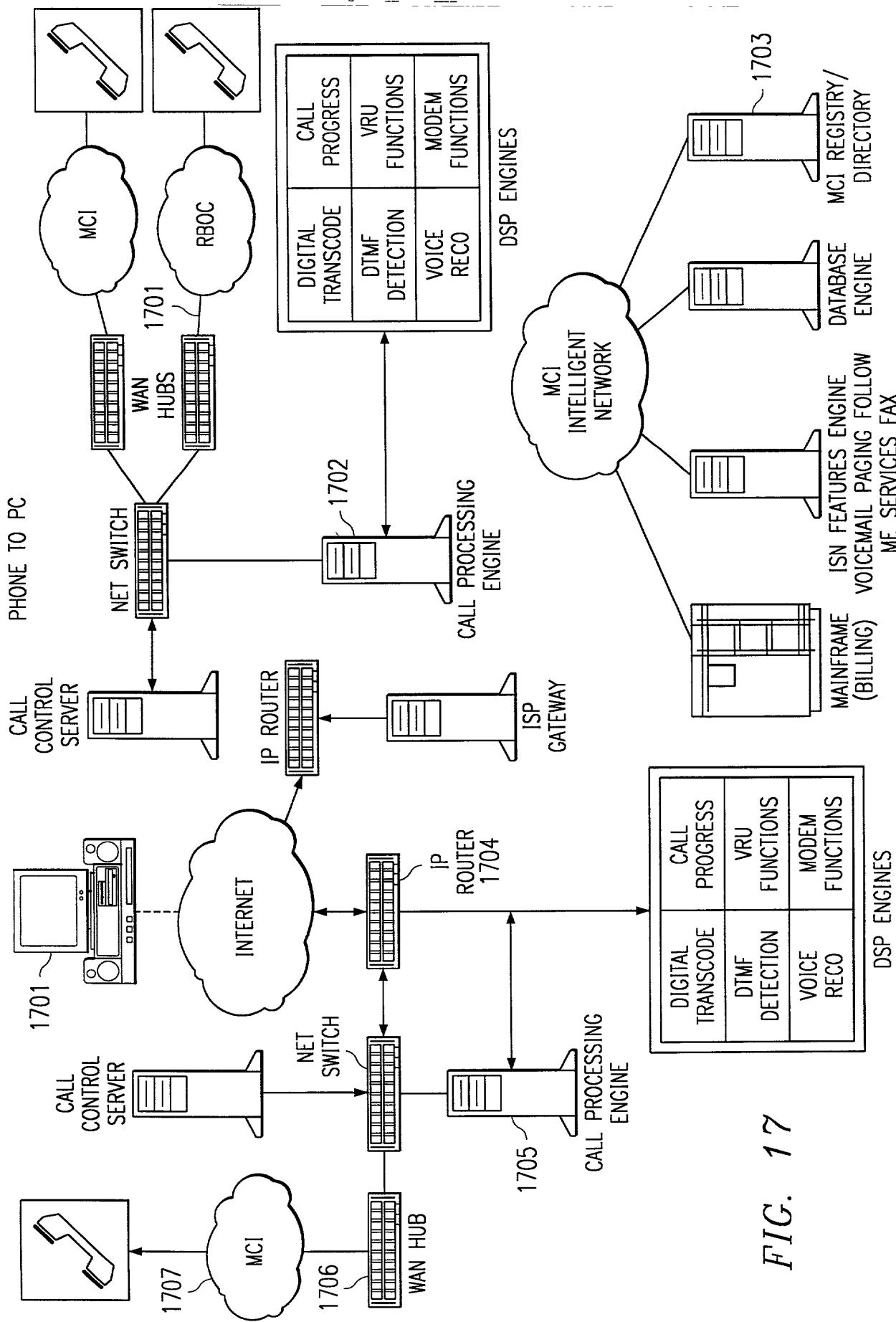


FIG. 17

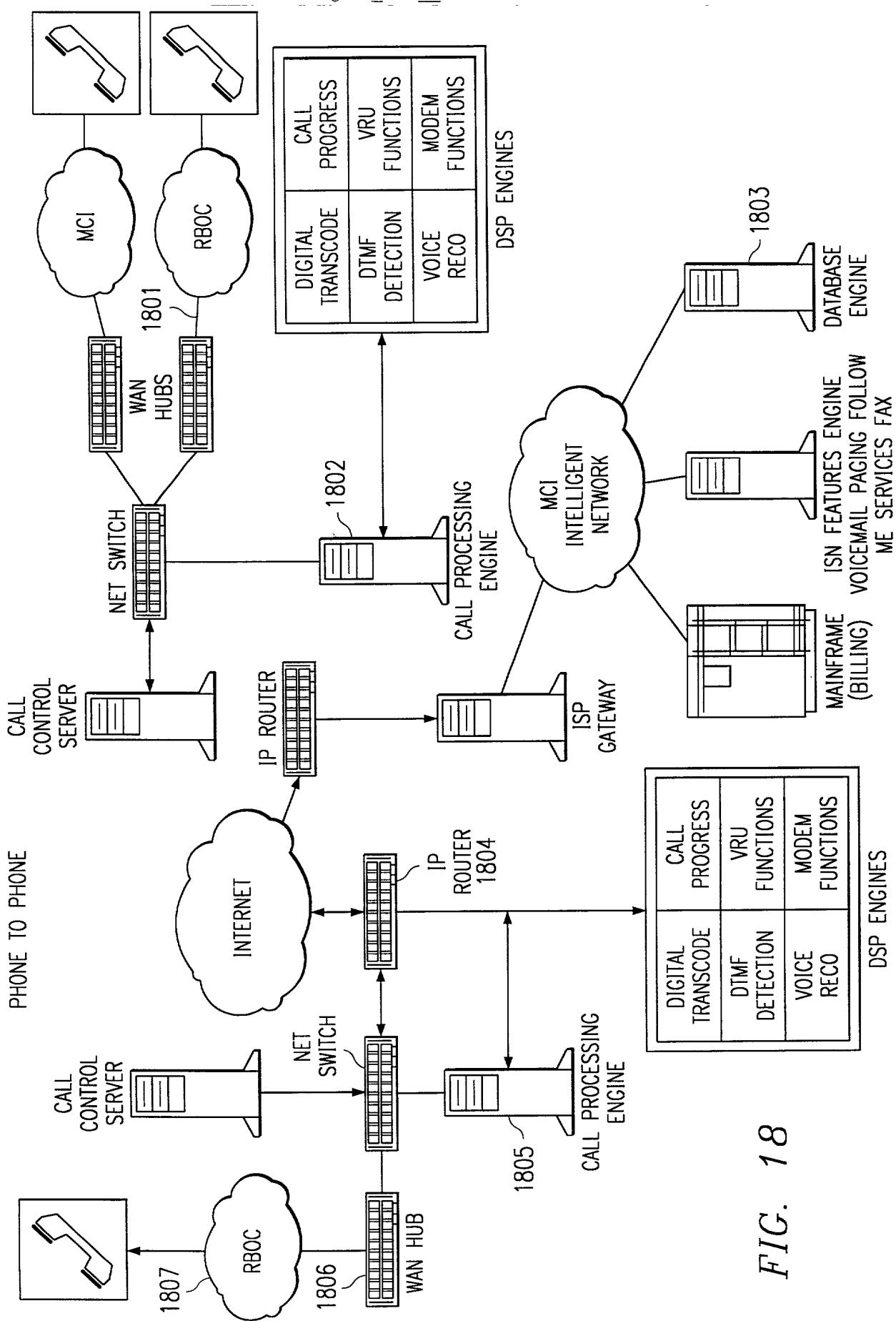


FIG. 18

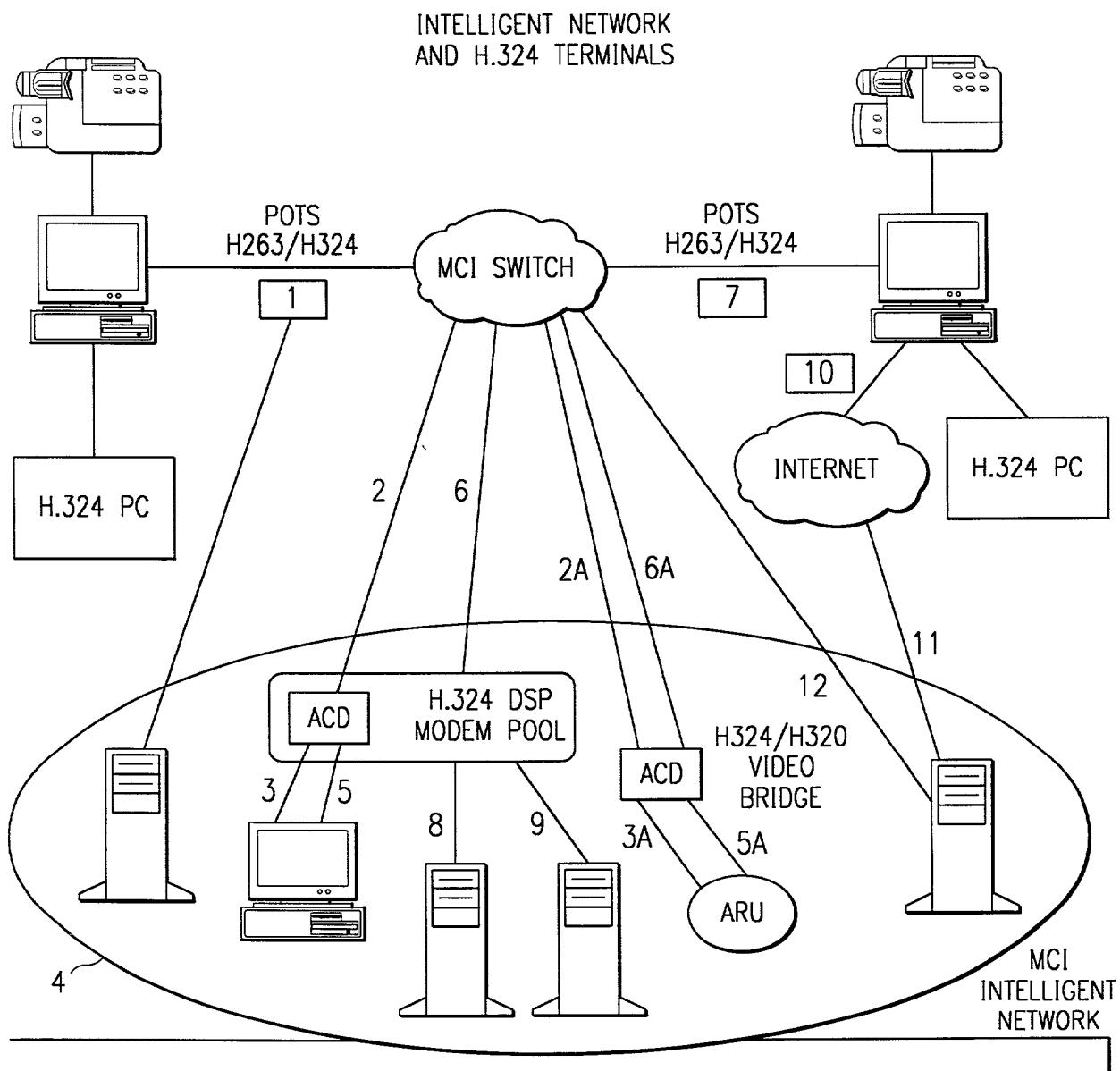


FIG. 19B

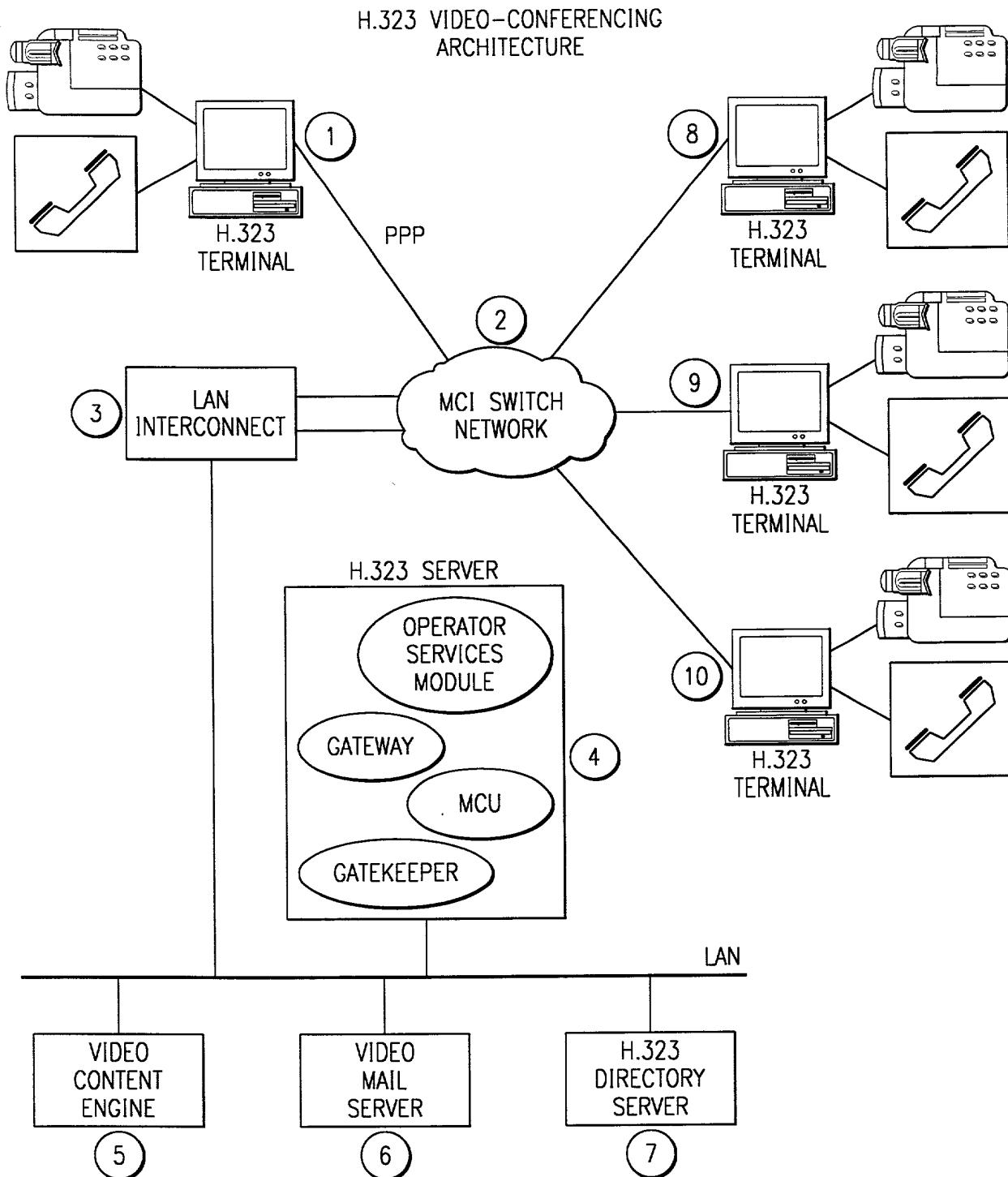


FIG. 19C

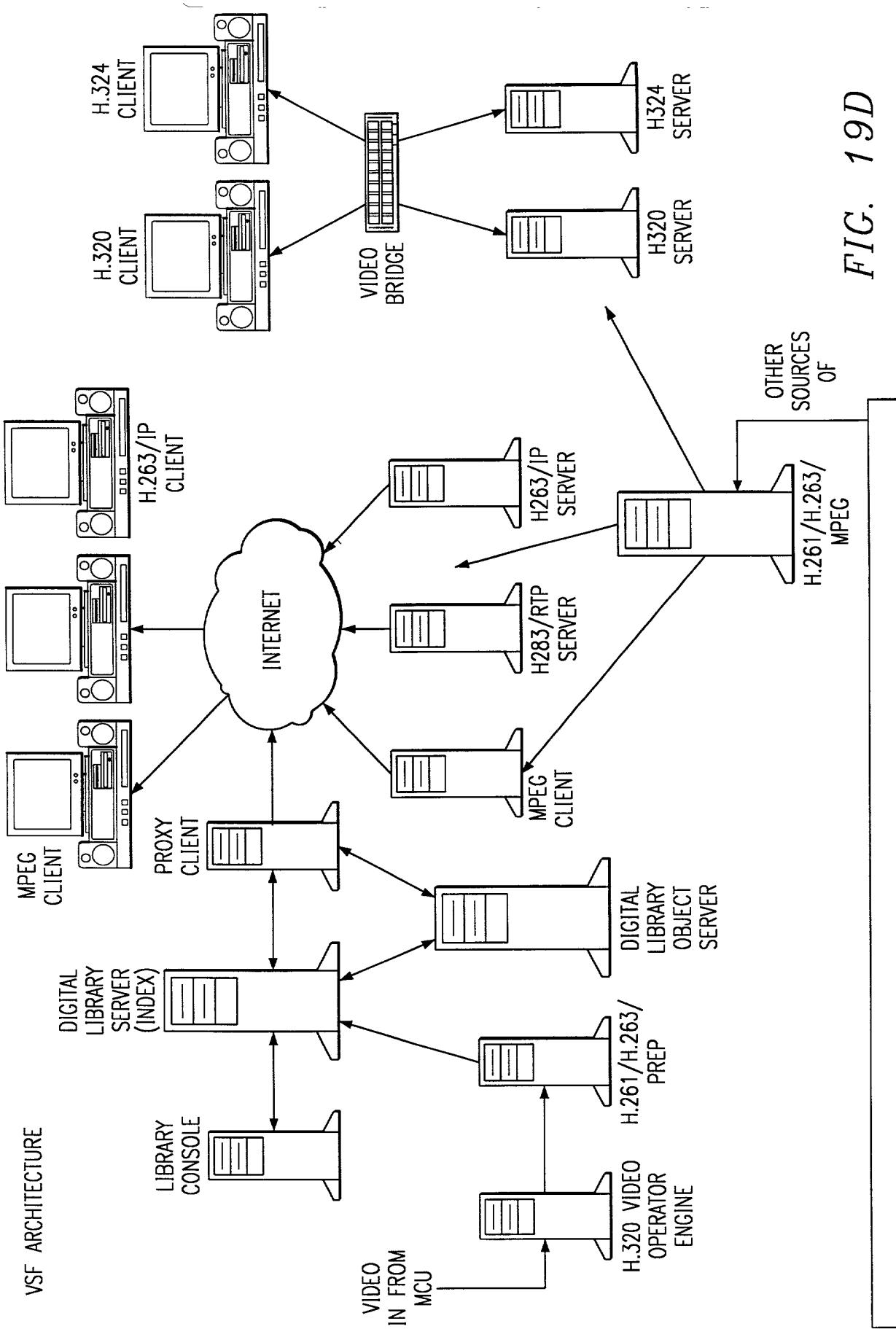


FIG. 19D

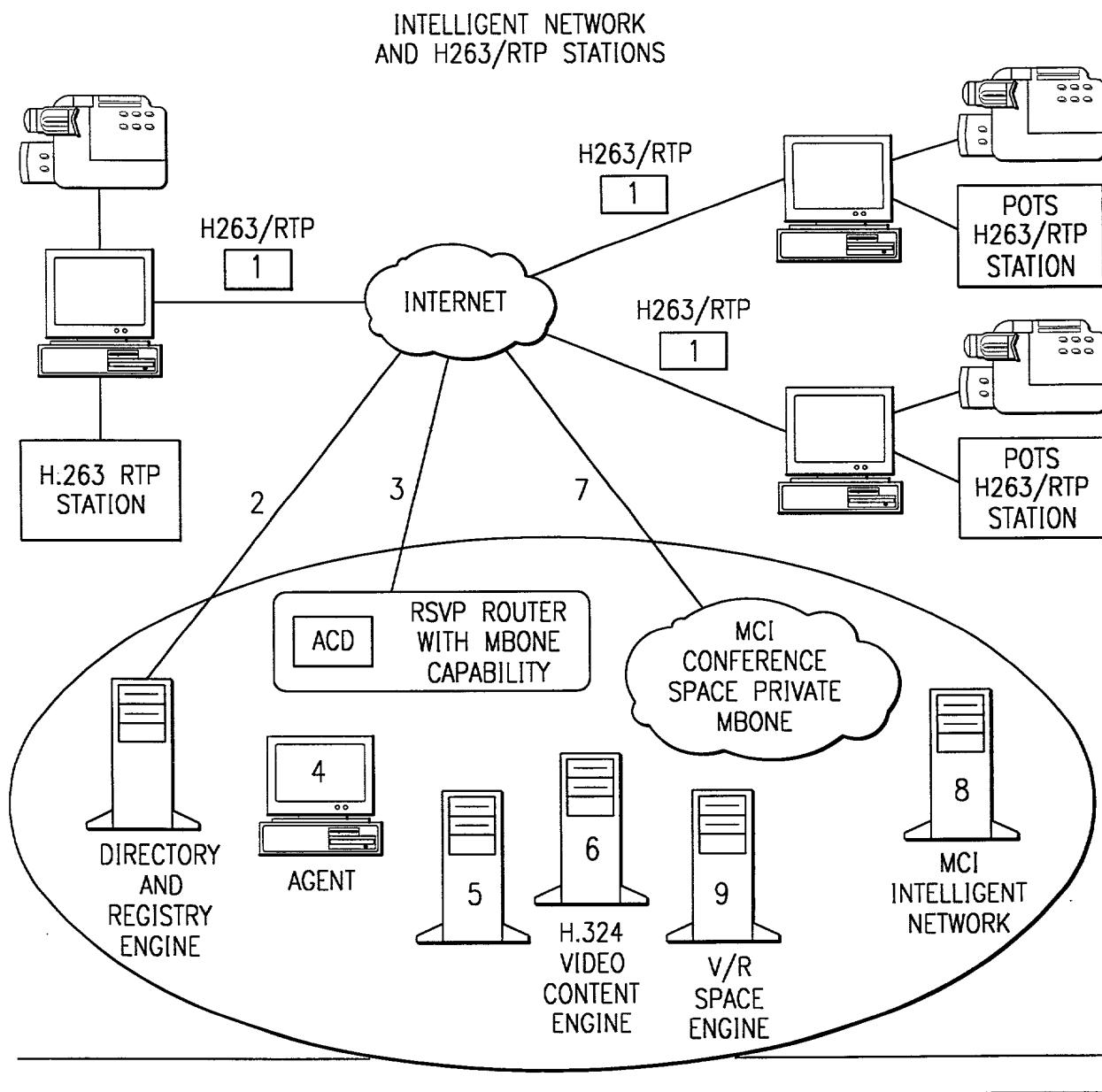


FIG. 19E

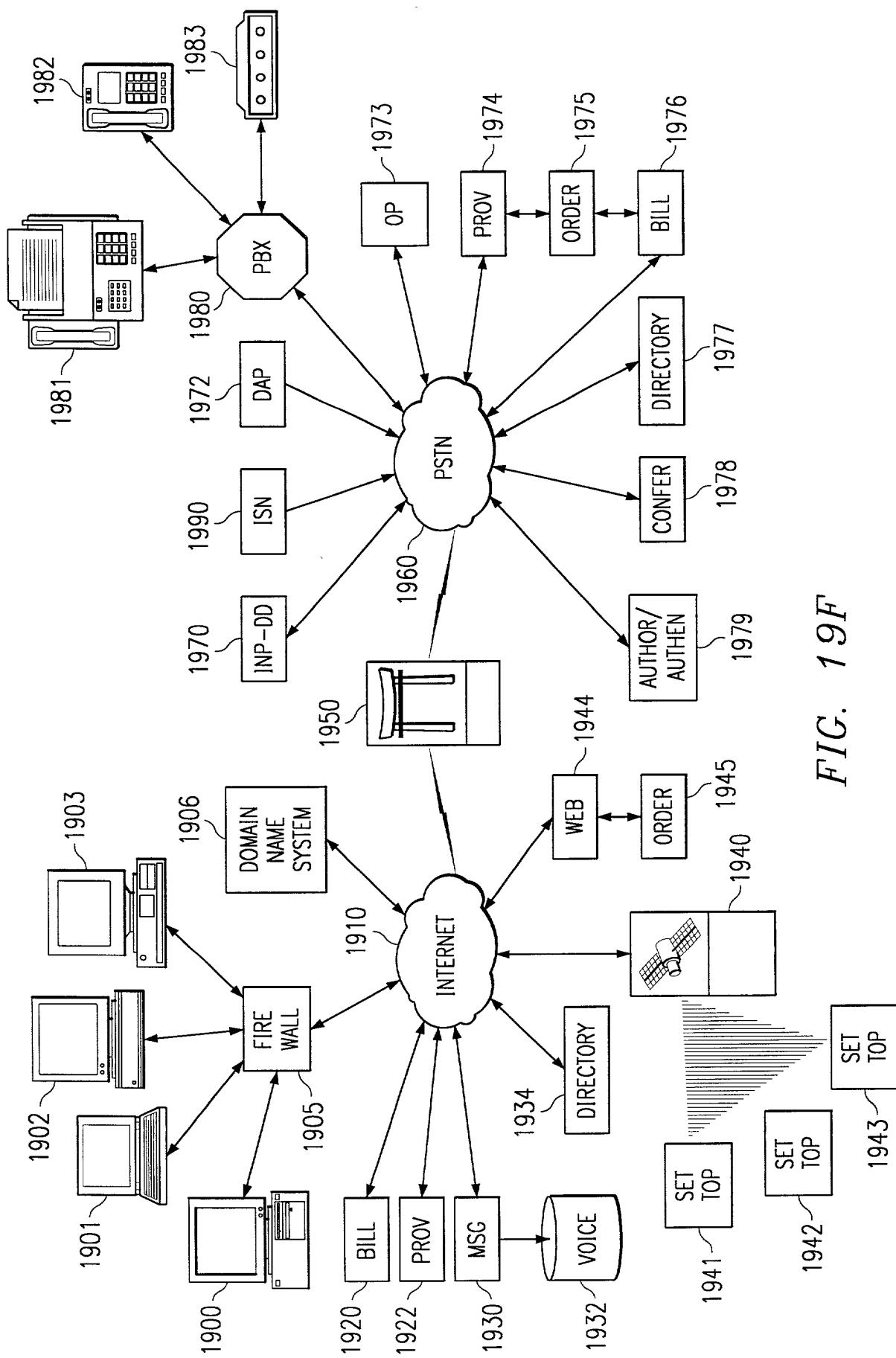


FIG. 19F

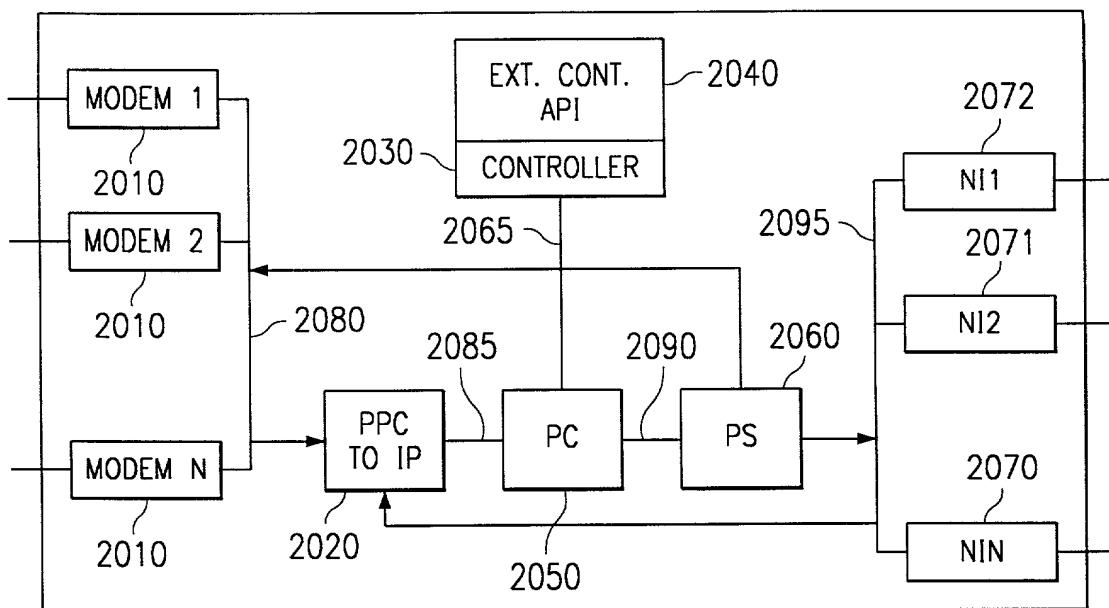


FIG. 19G

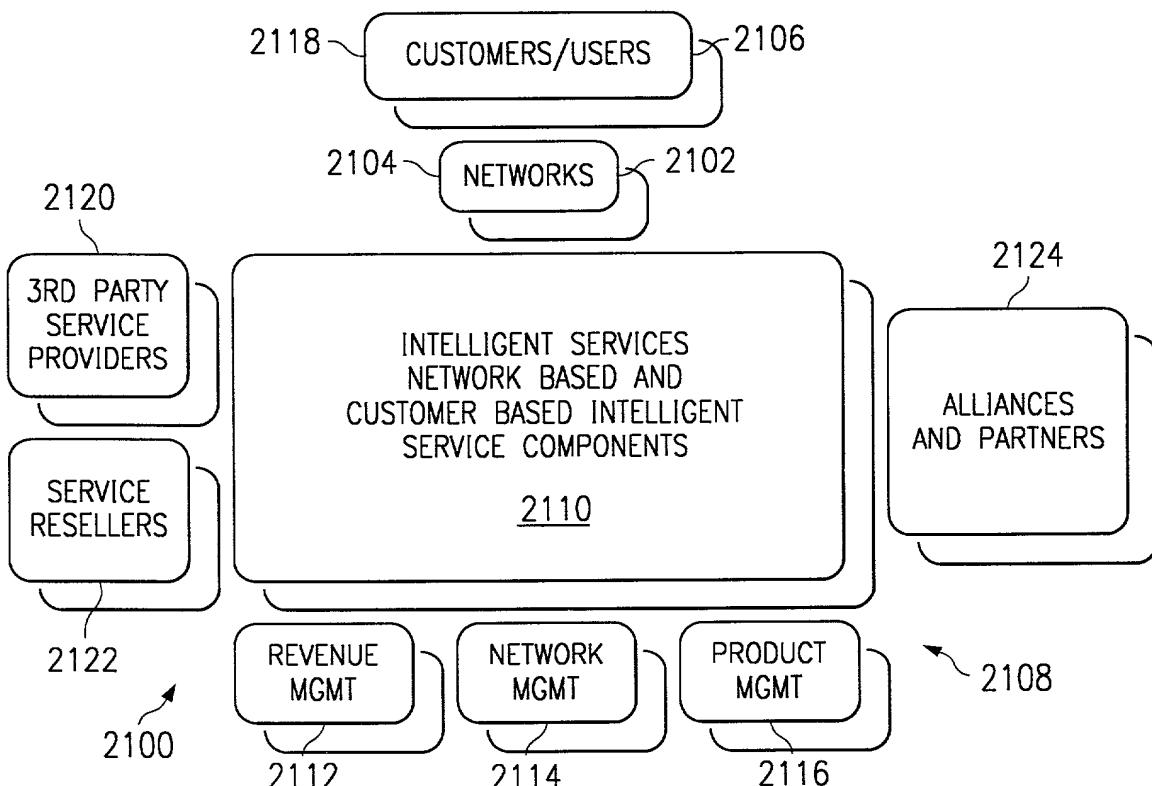


FIG. 20

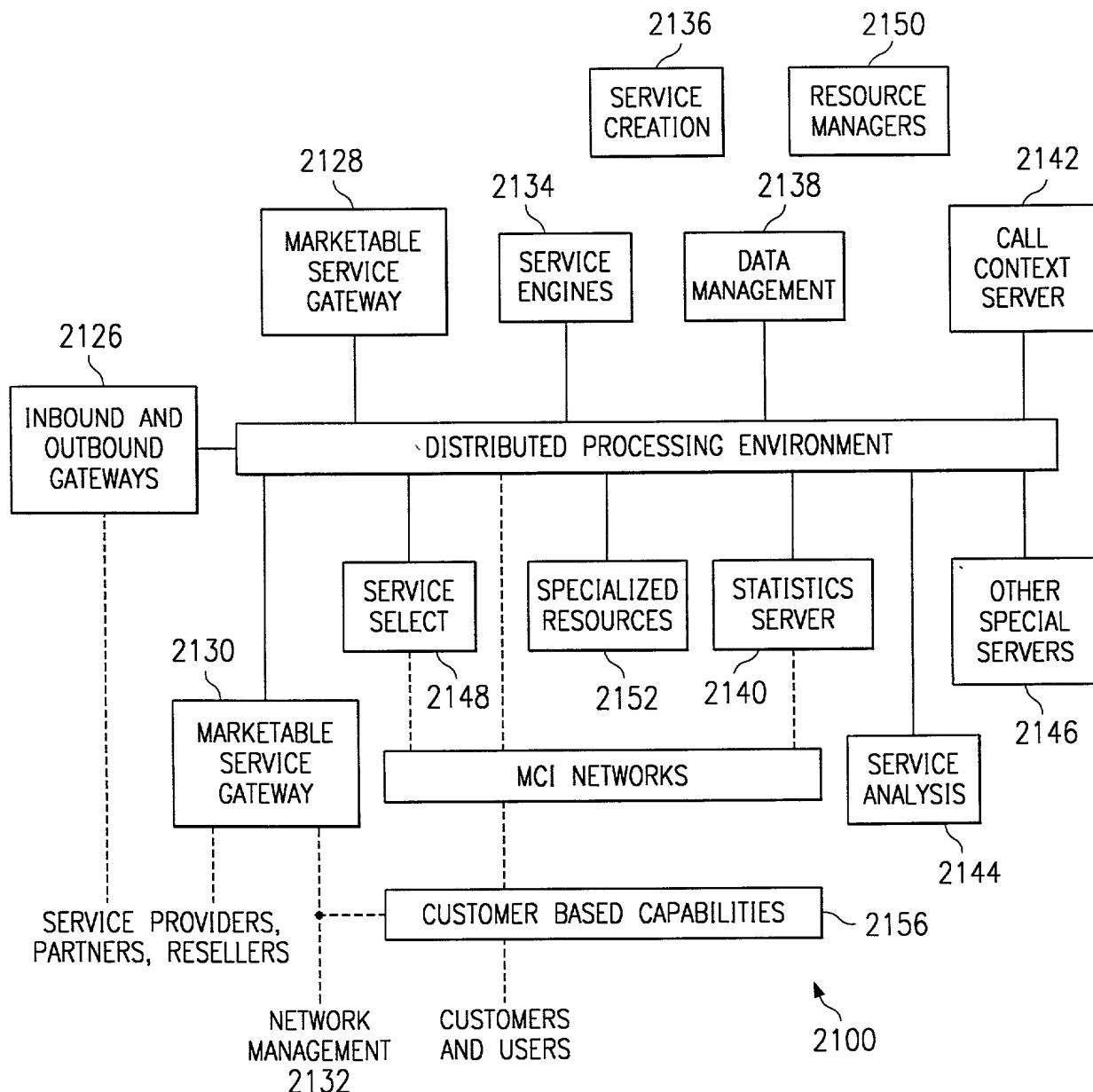


FIG. 21

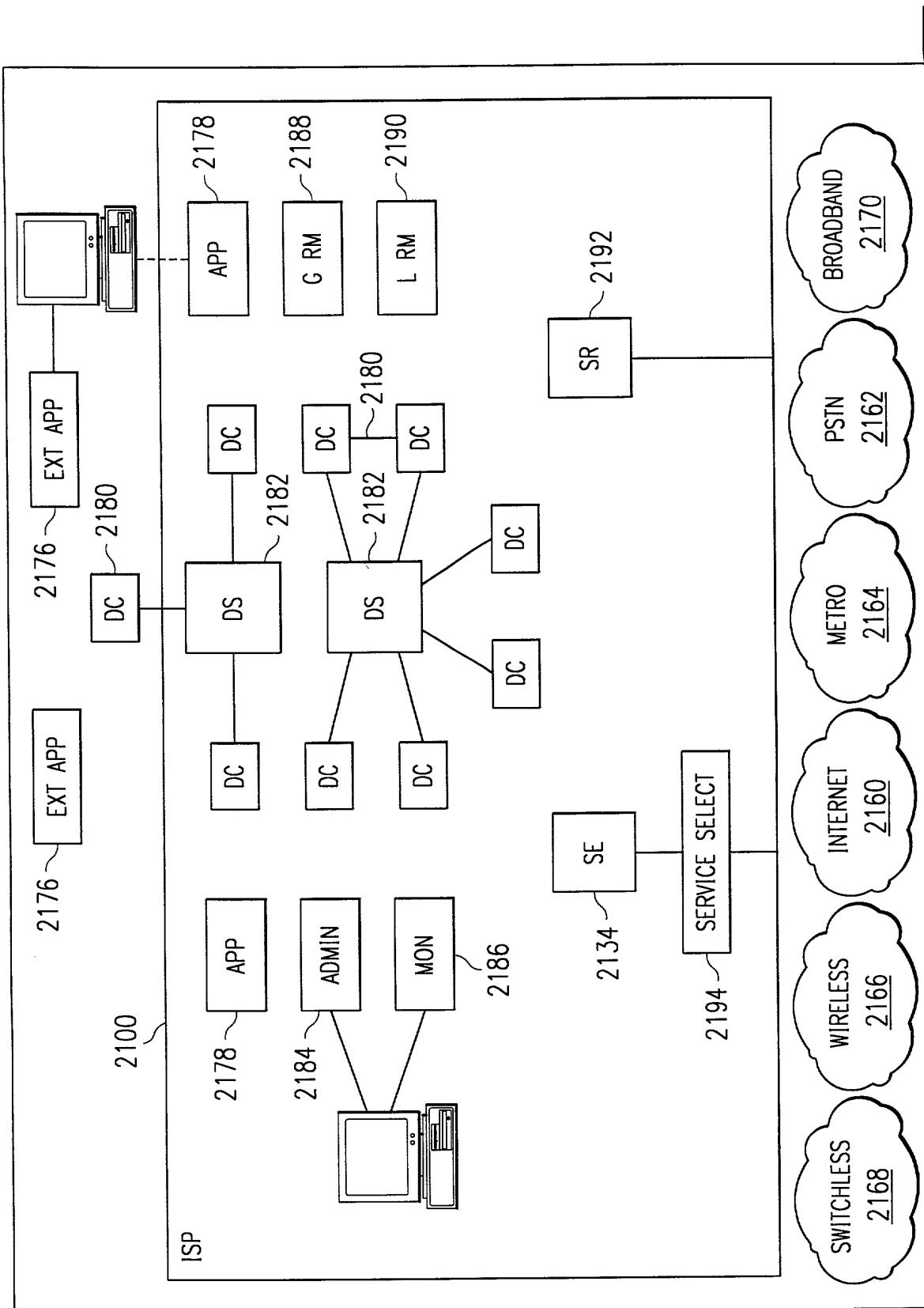


FIG. 22

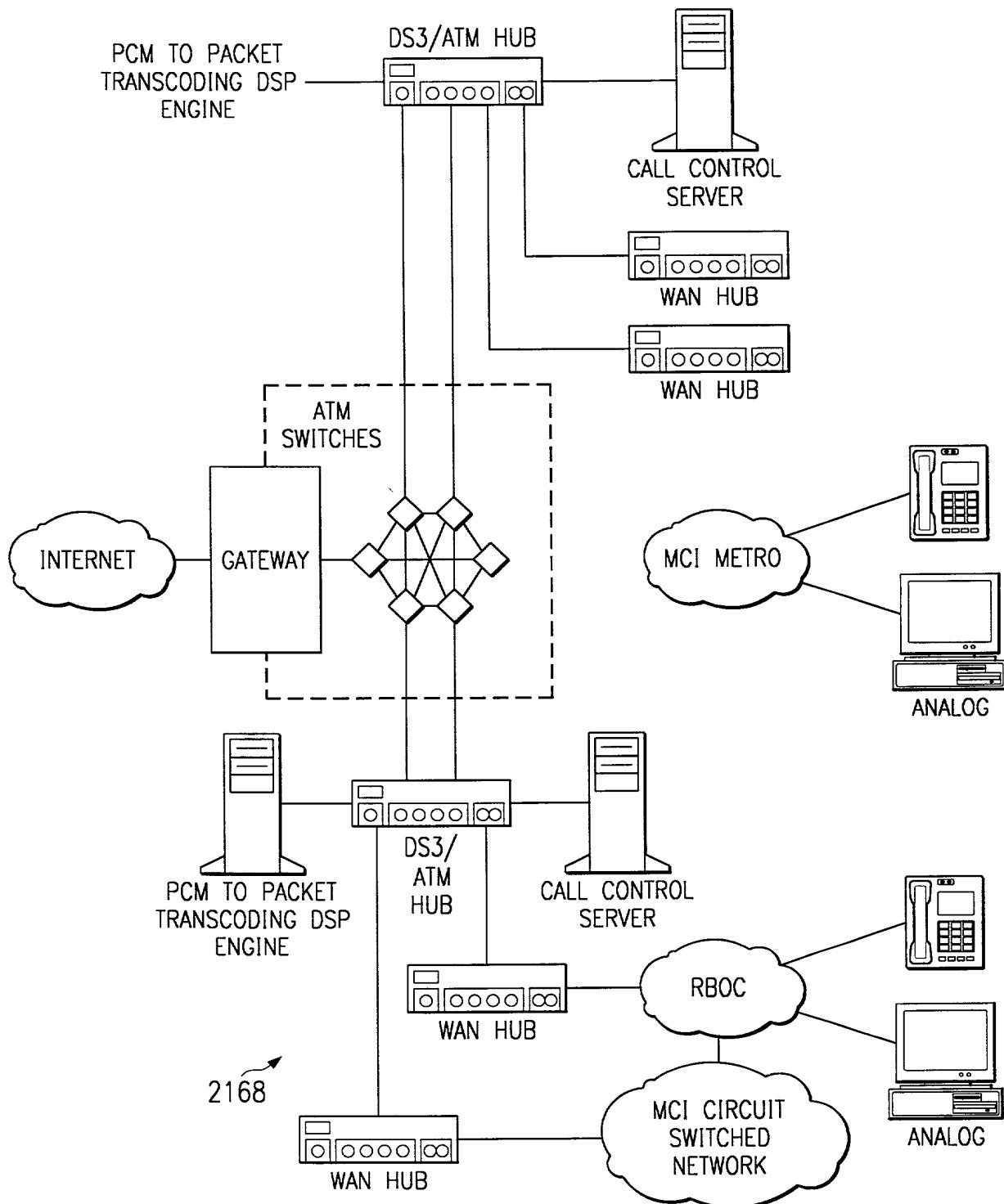


FIG. 23

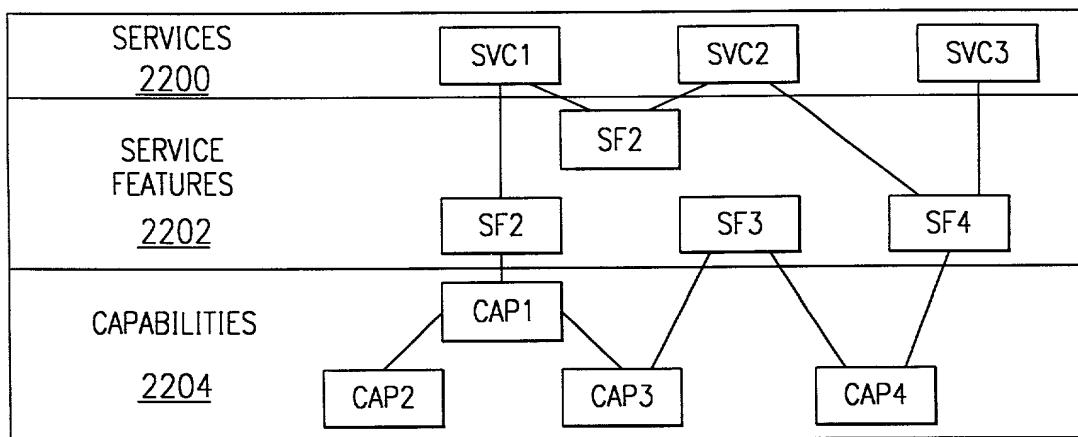


FIG. 24

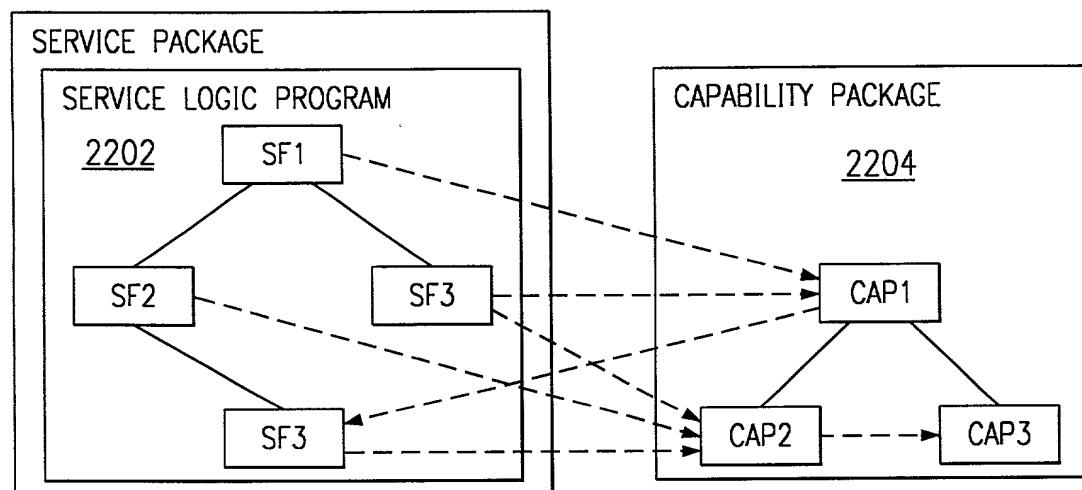


FIG. 25

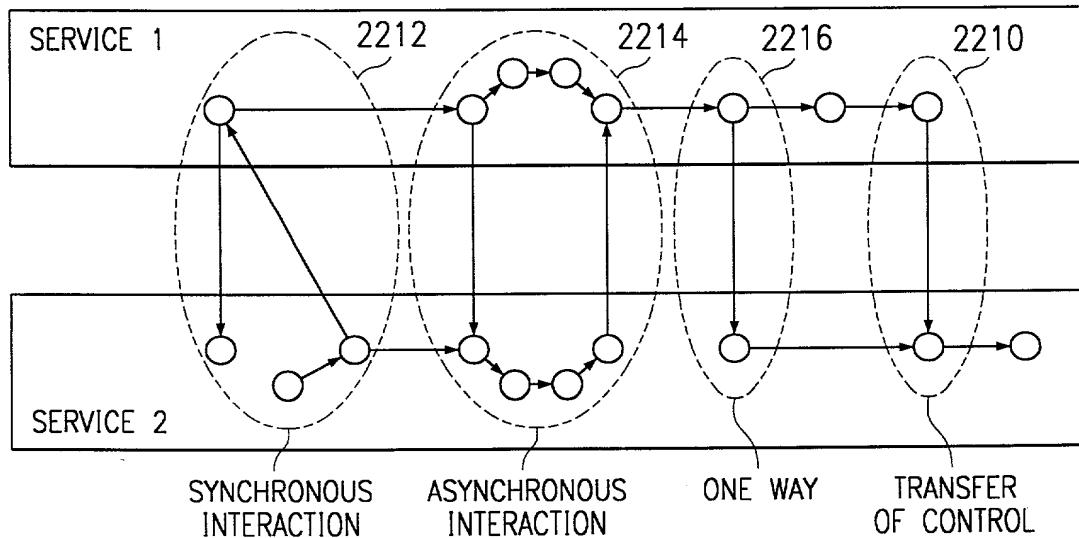


FIG. 26

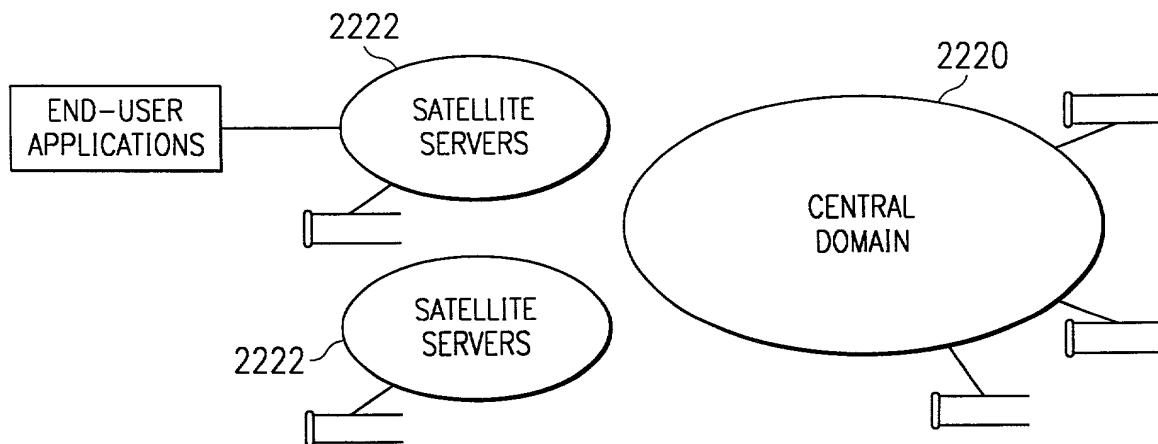


FIG. 27

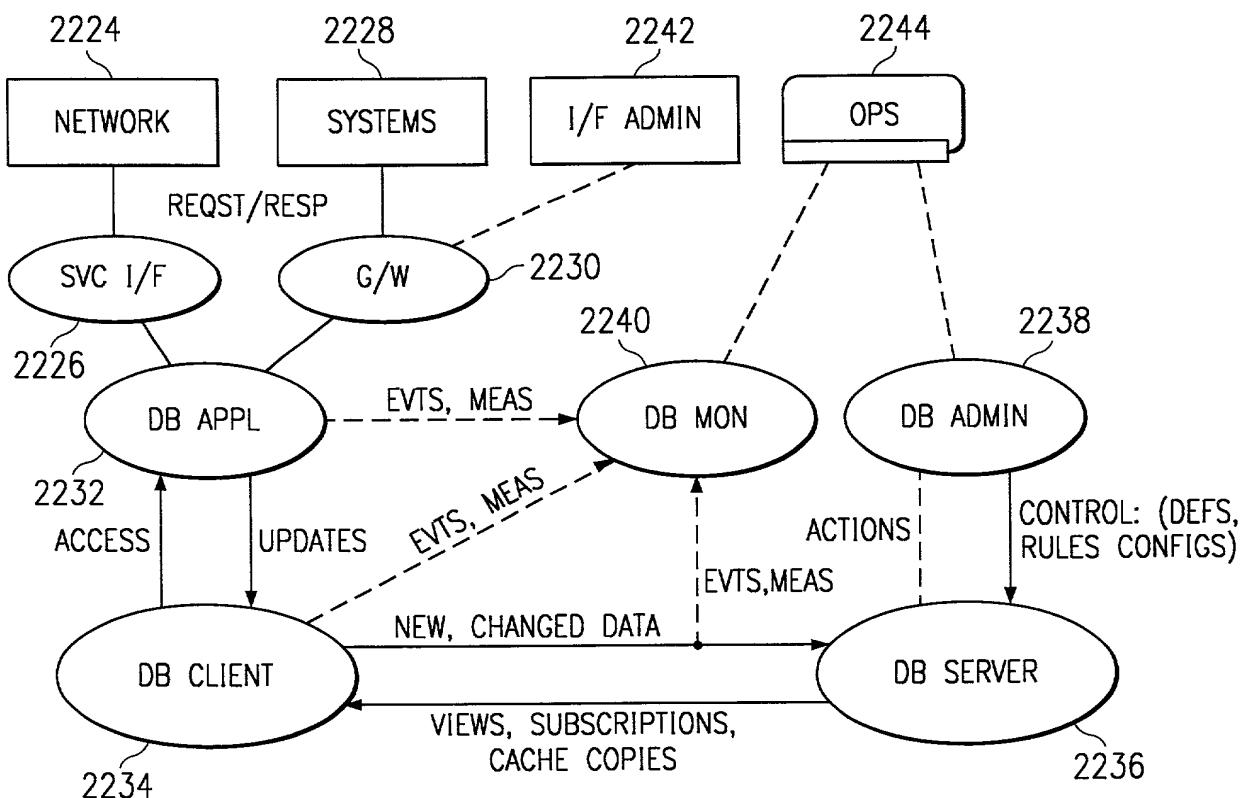


FIG. 28

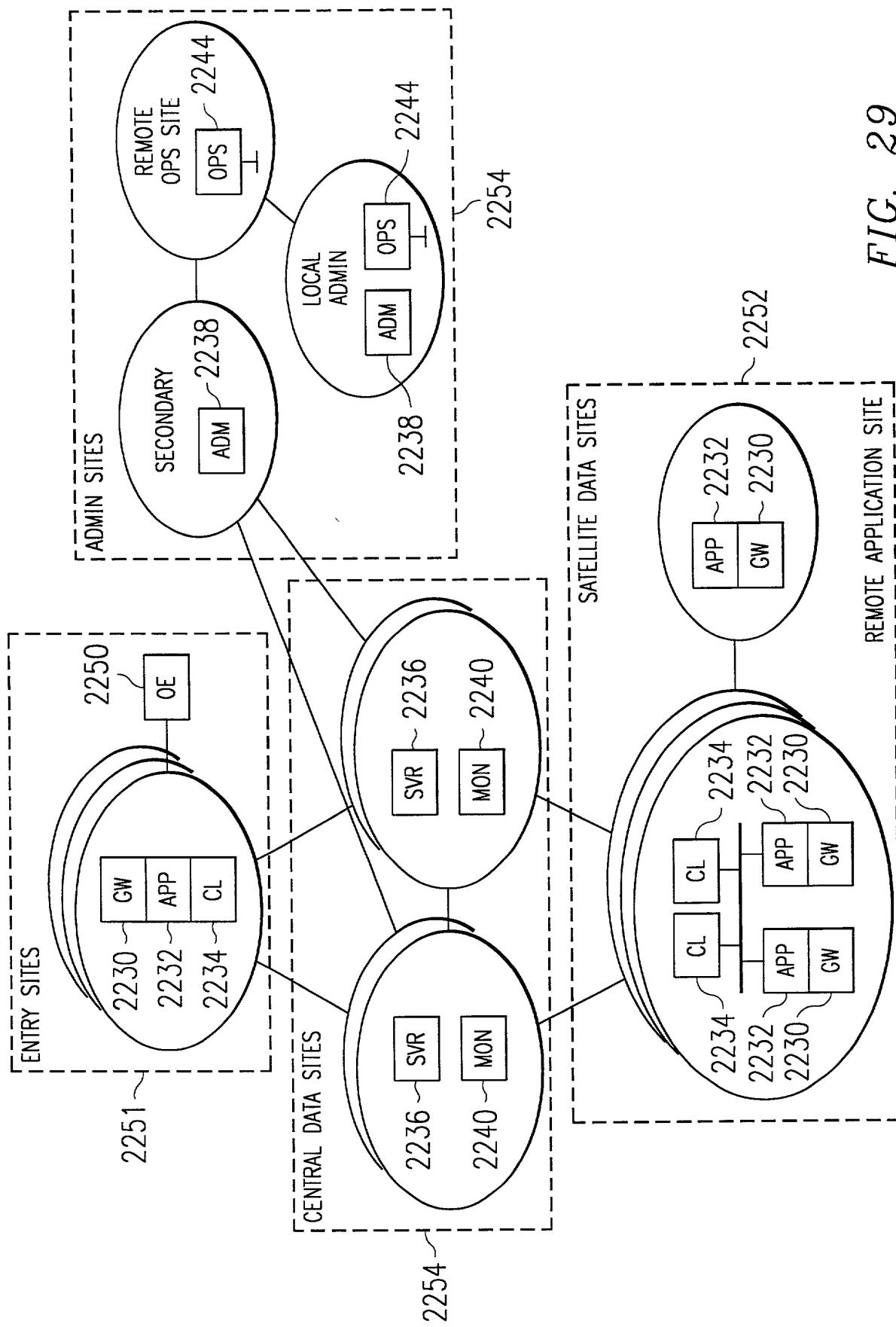


FIG. 29

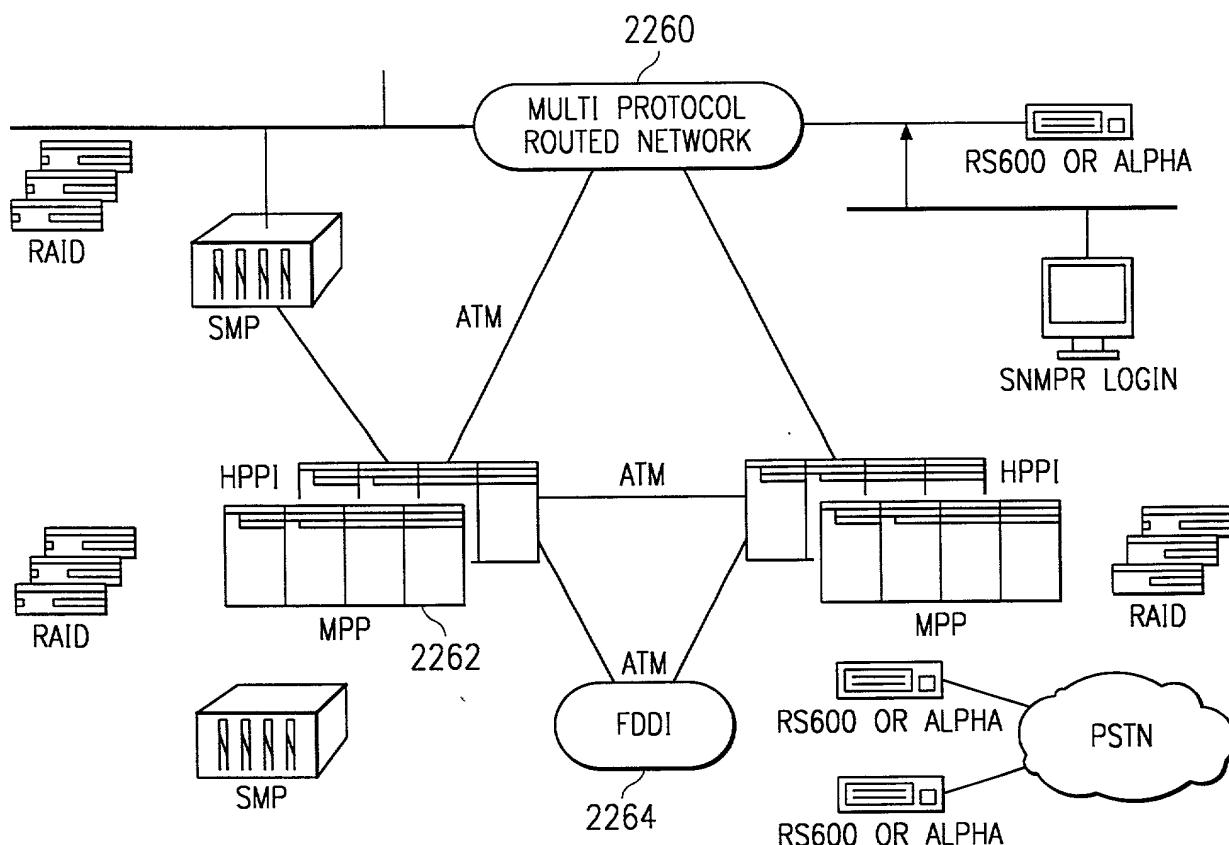


FIG. 30

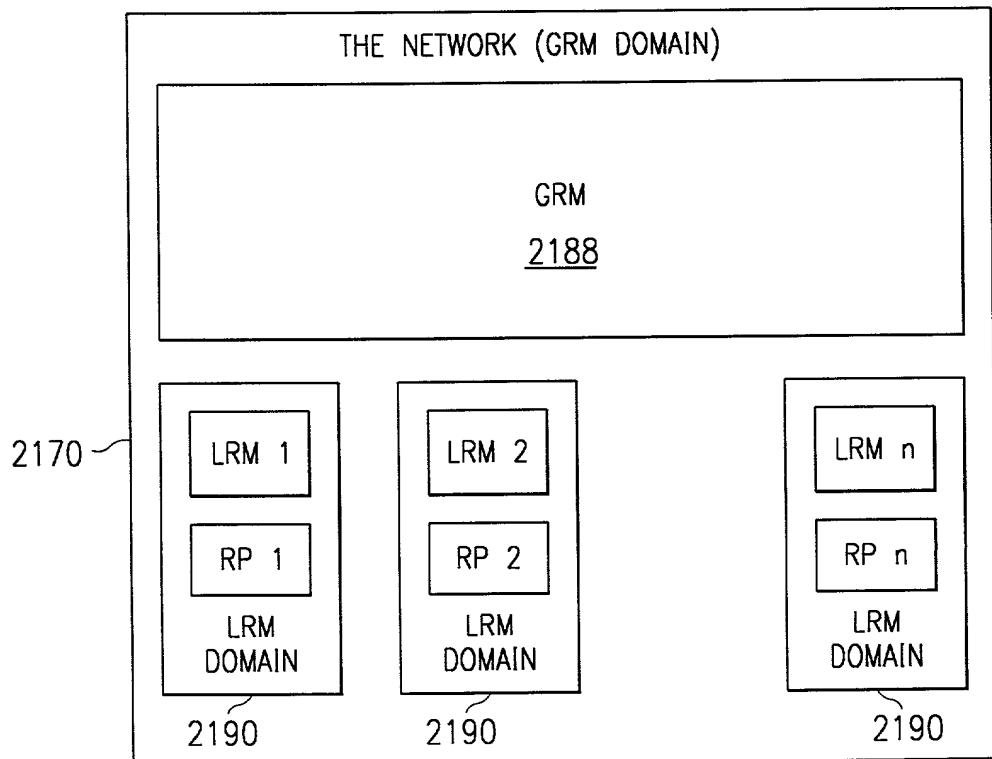


FIG. 31

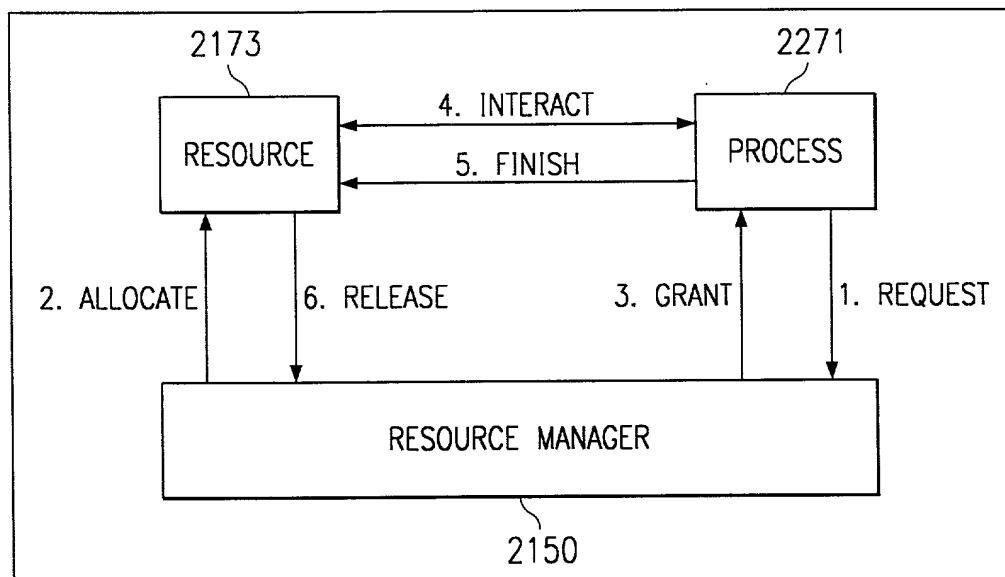


FIG. 32

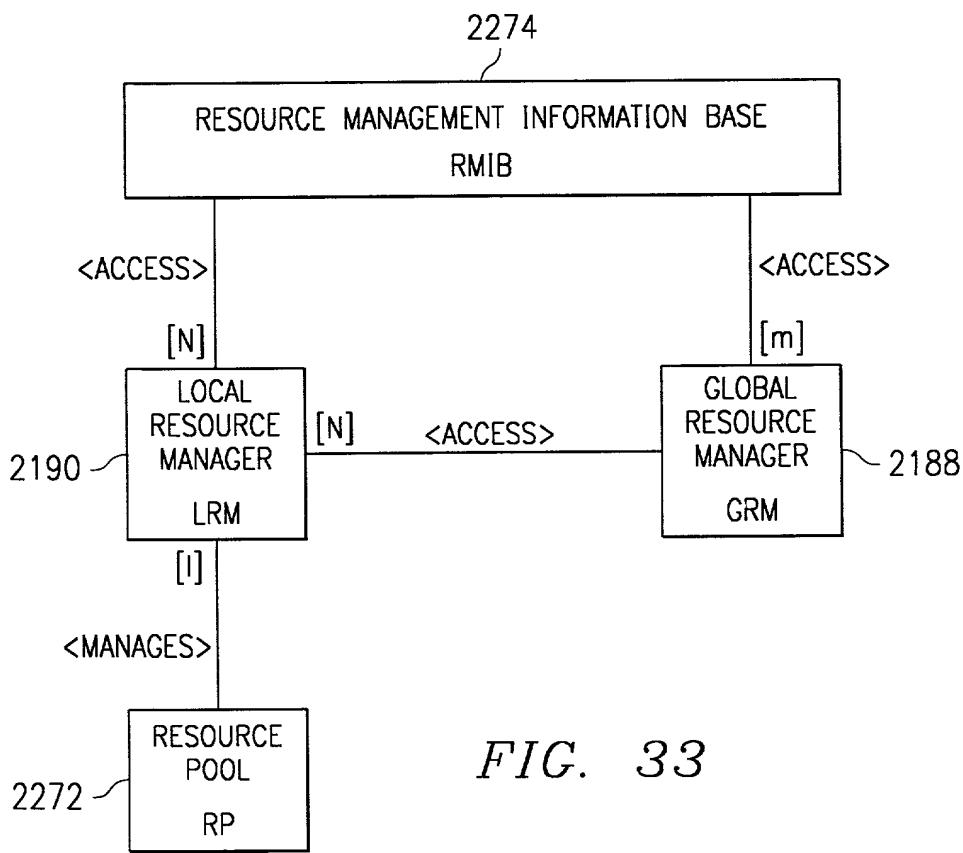


FIG. 33

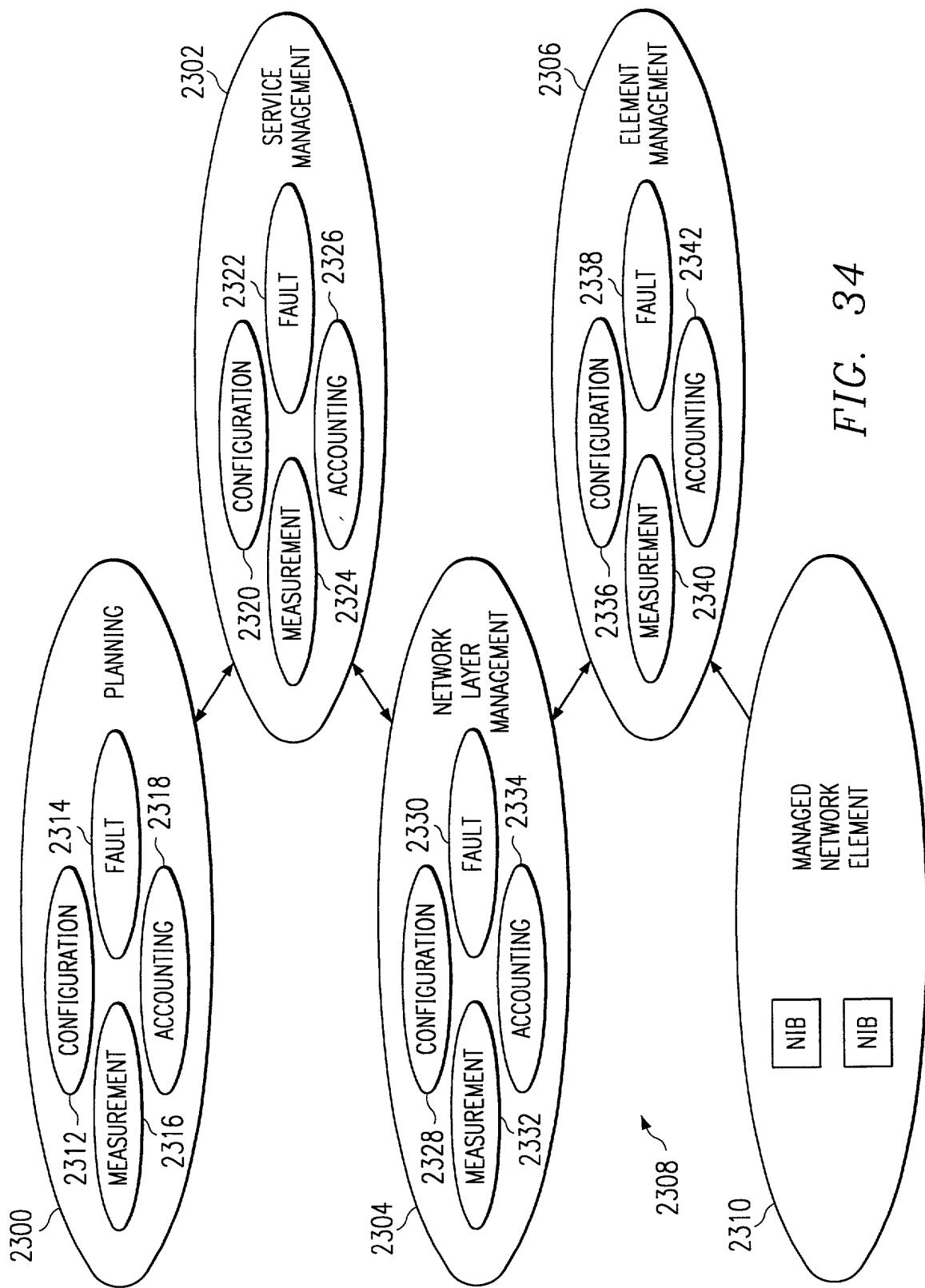
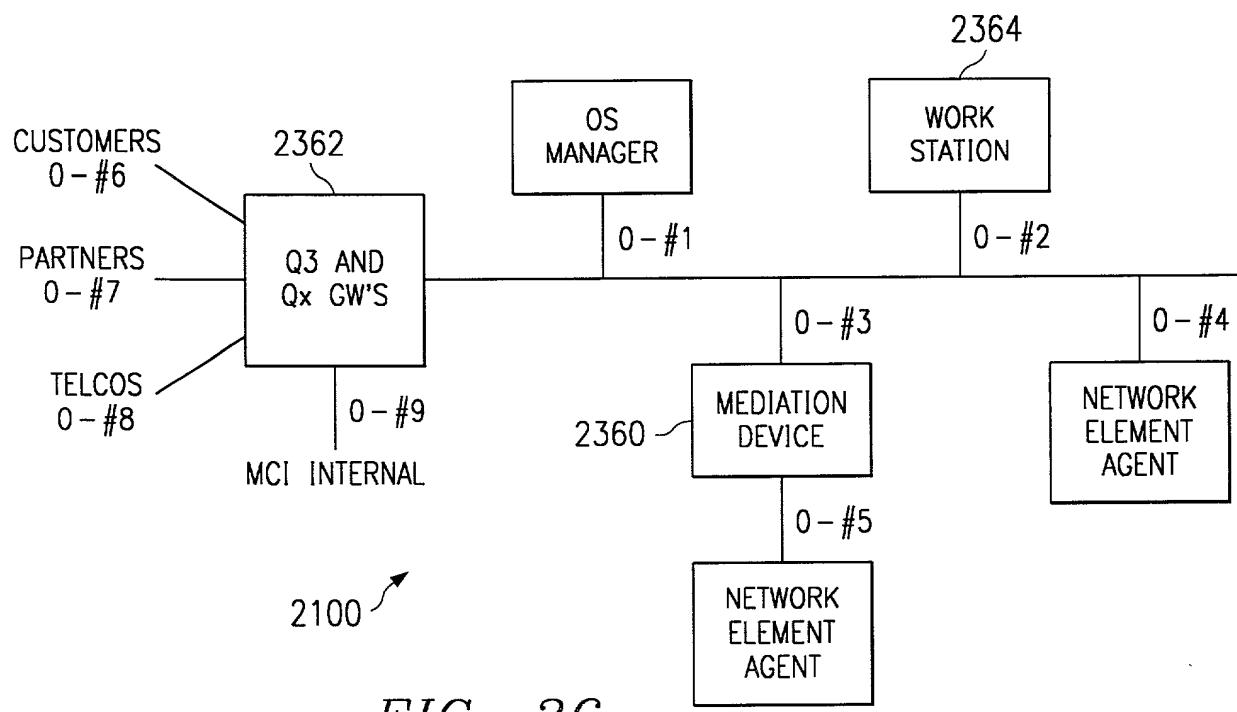
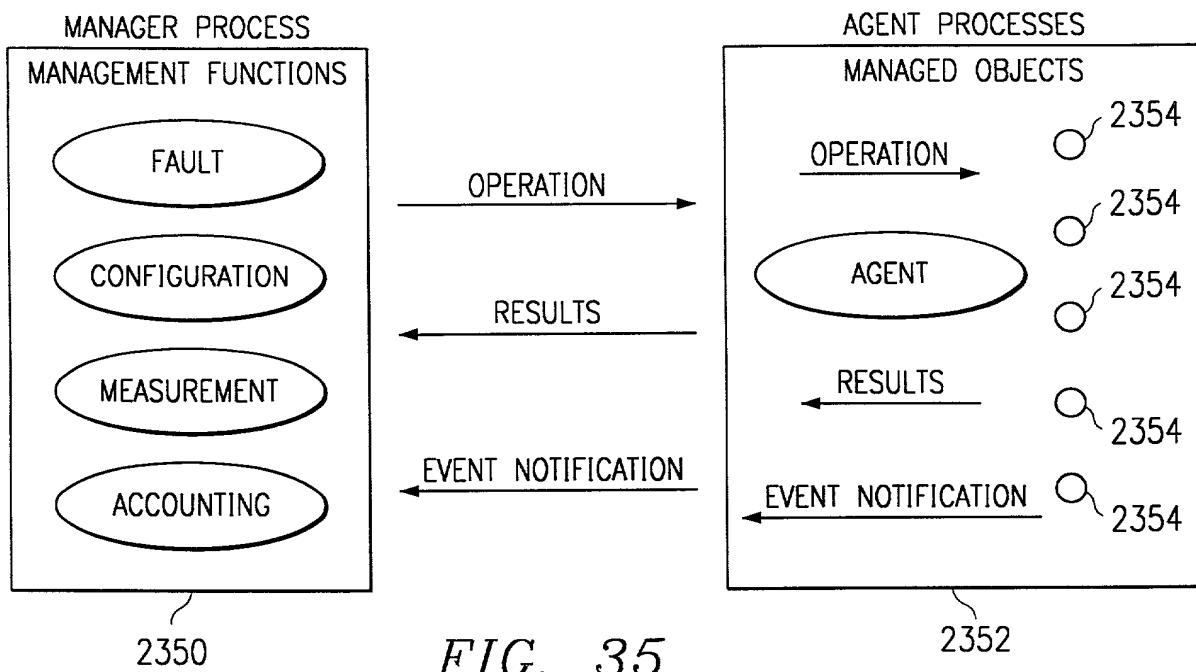


FIG. 34



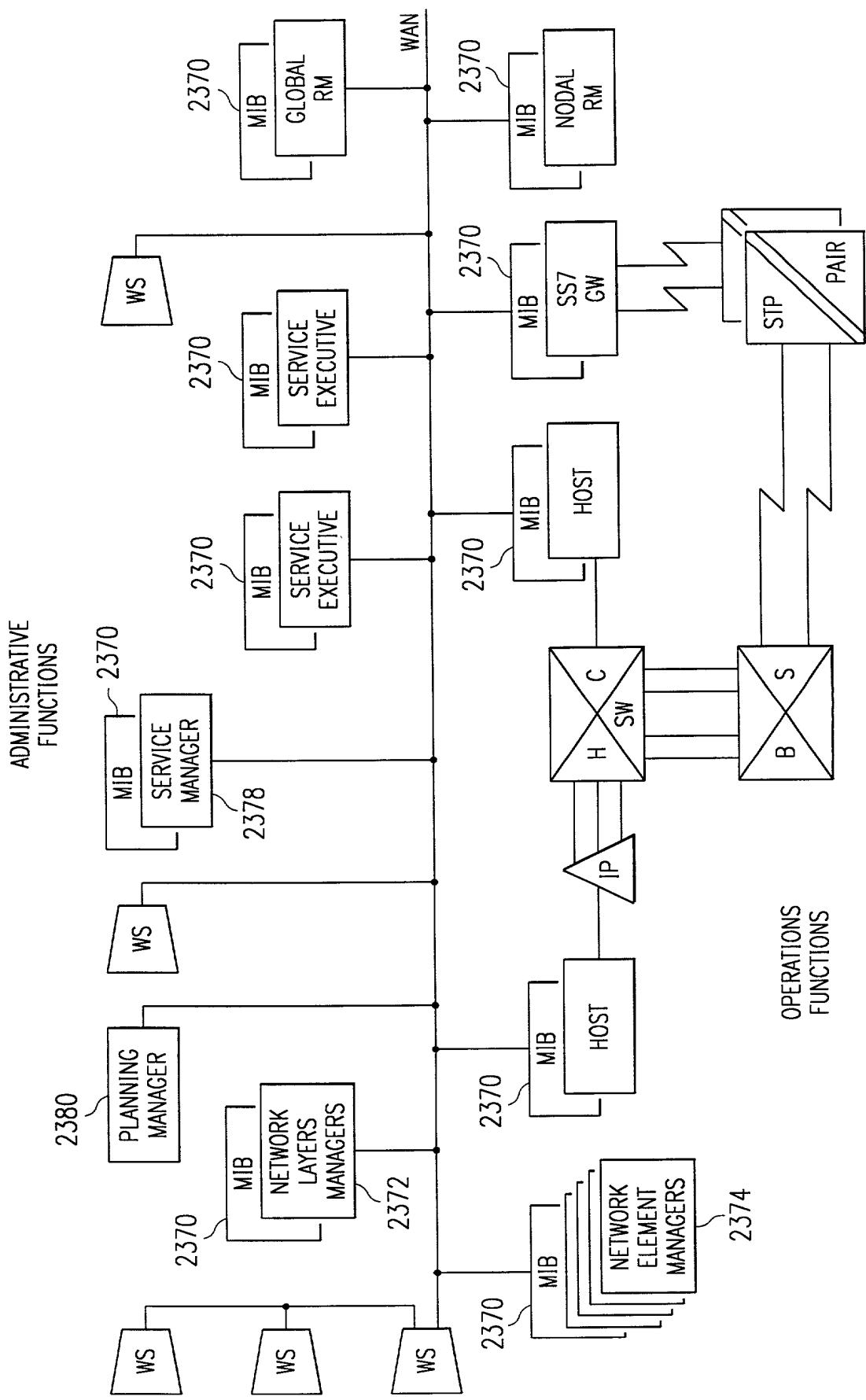


FIG. 37

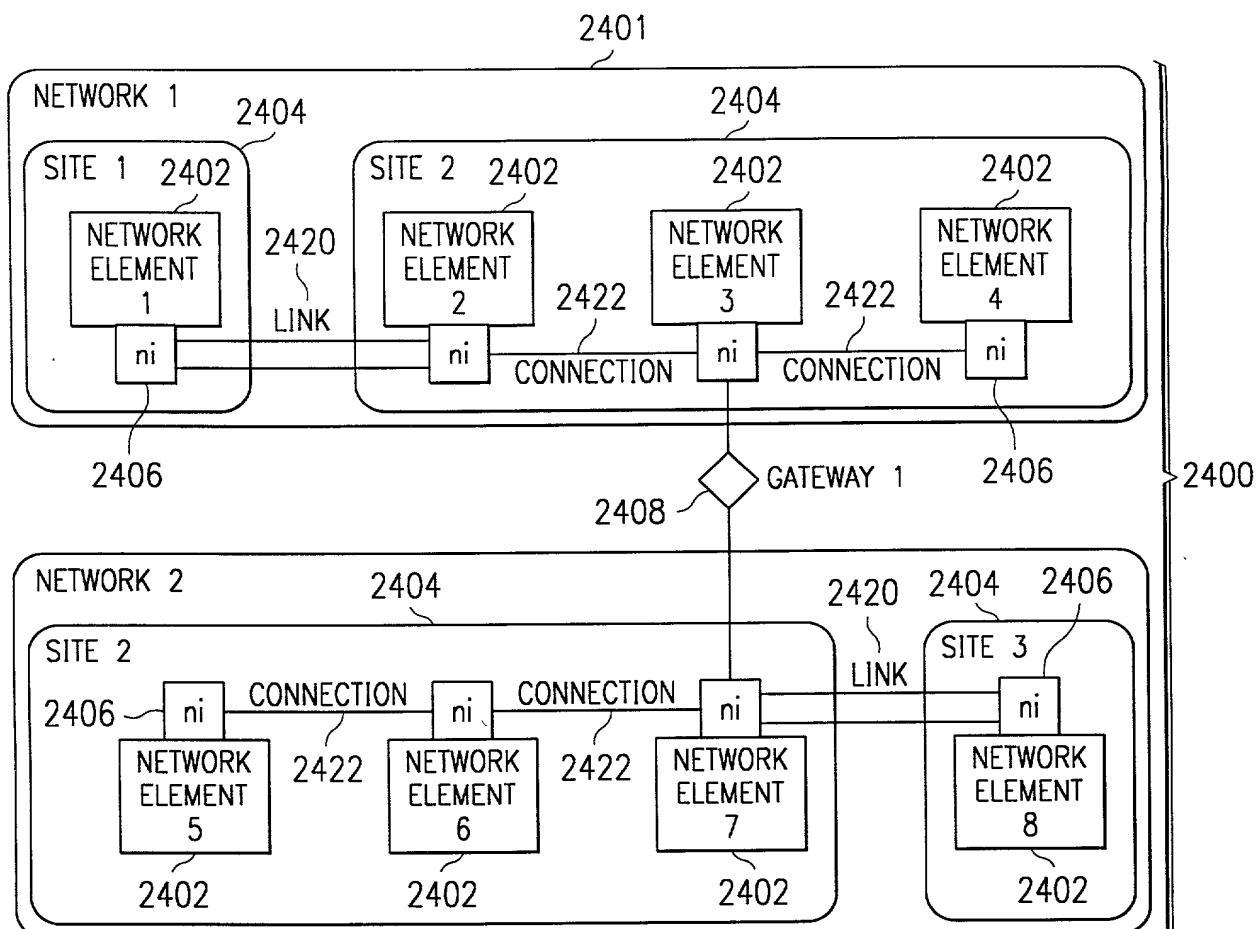


FIG. 38

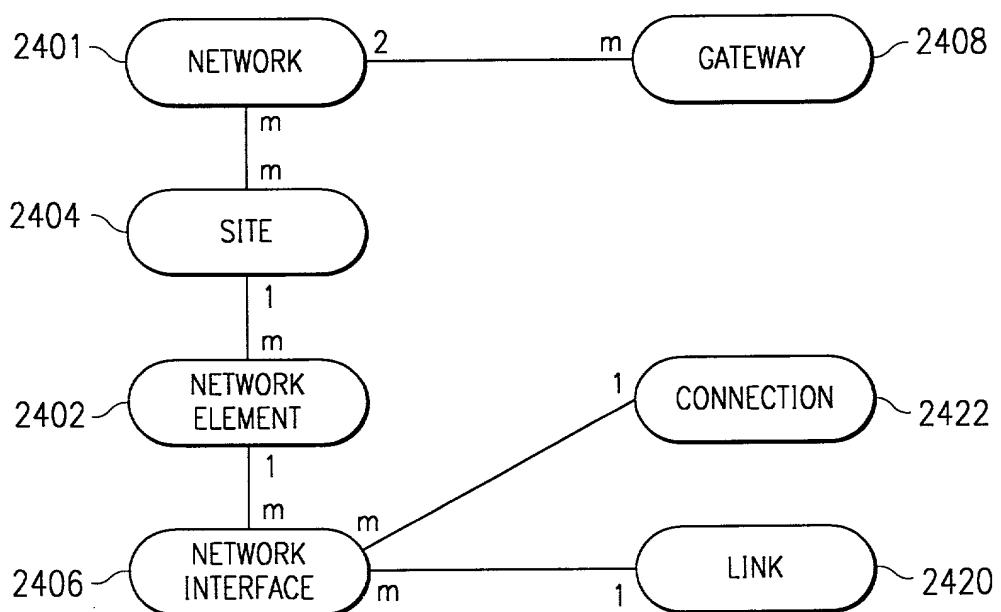


FIG. 39

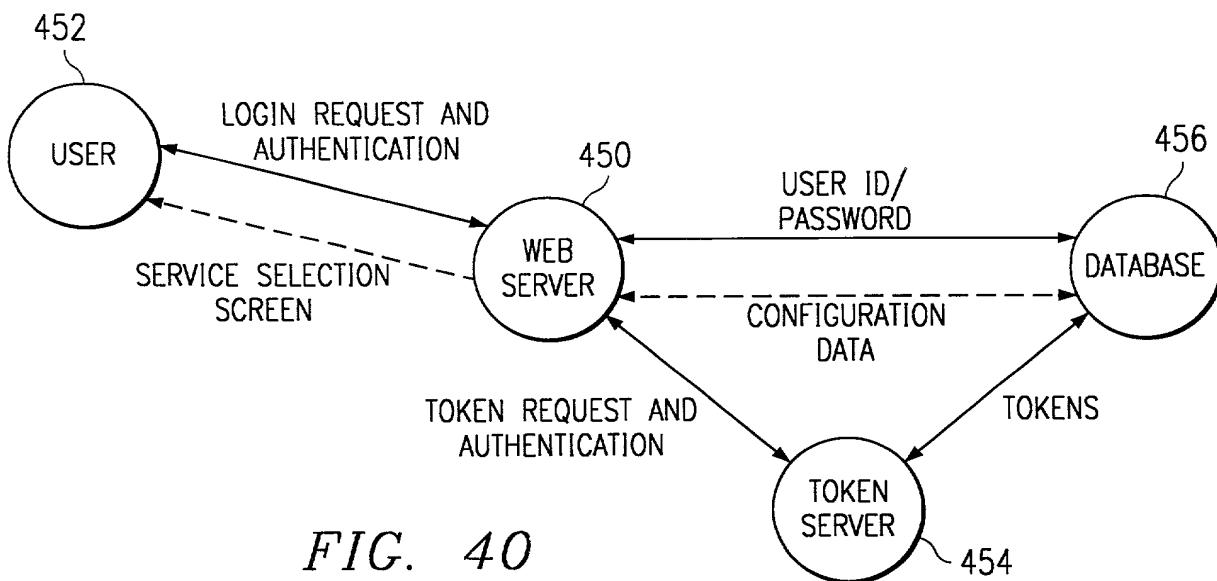


FIG. 40

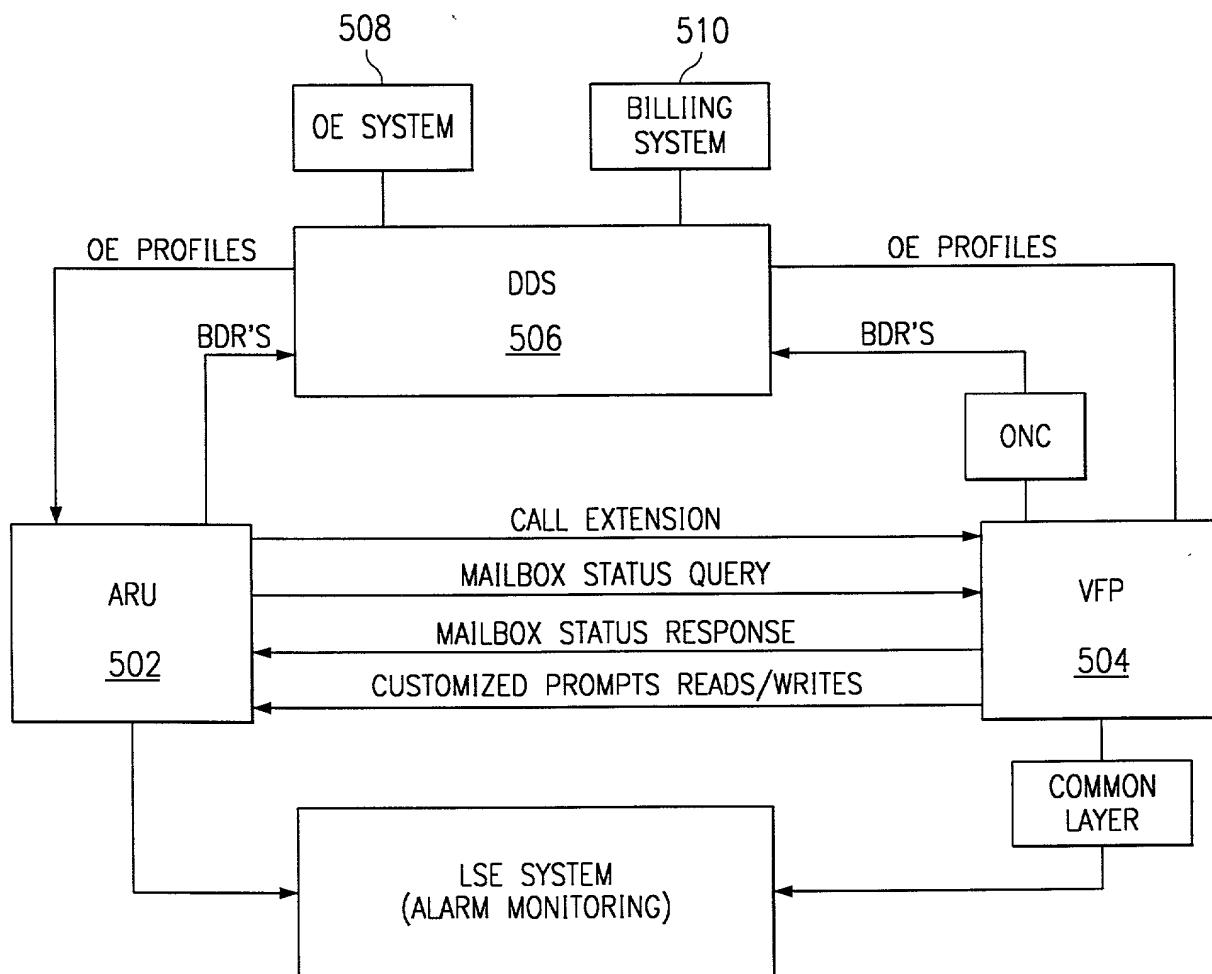
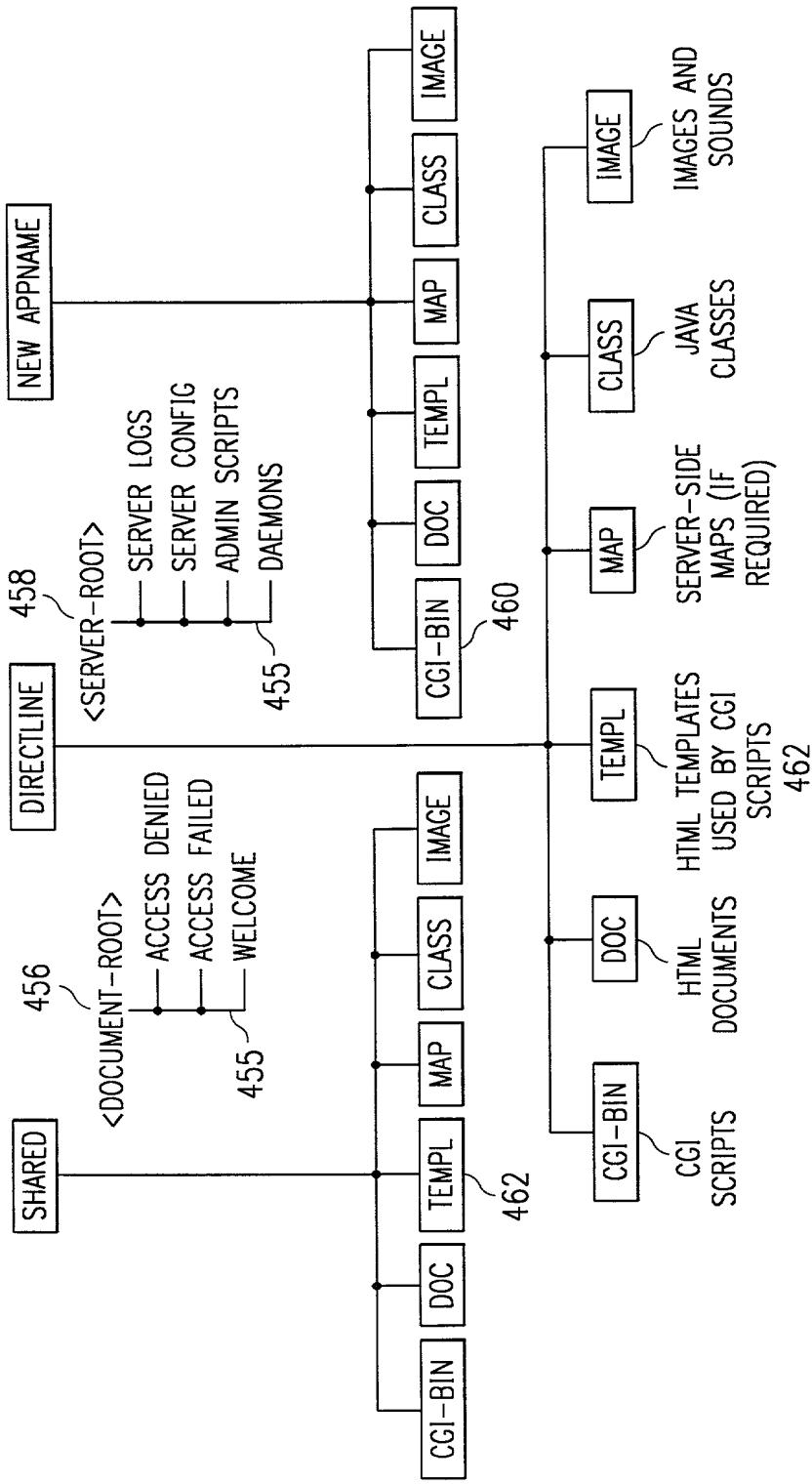


FIG. 43

FIG. 41



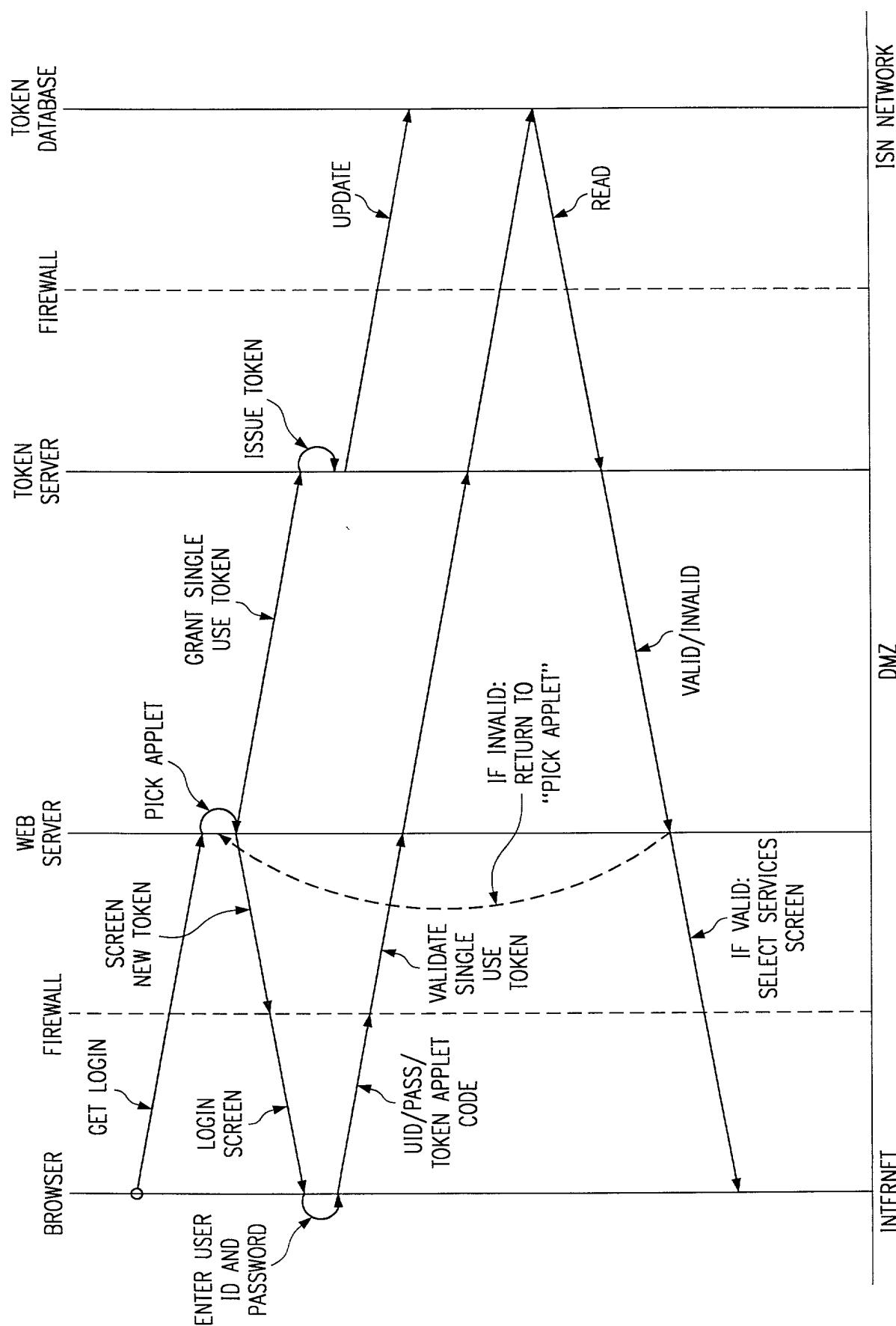


FIG. 42

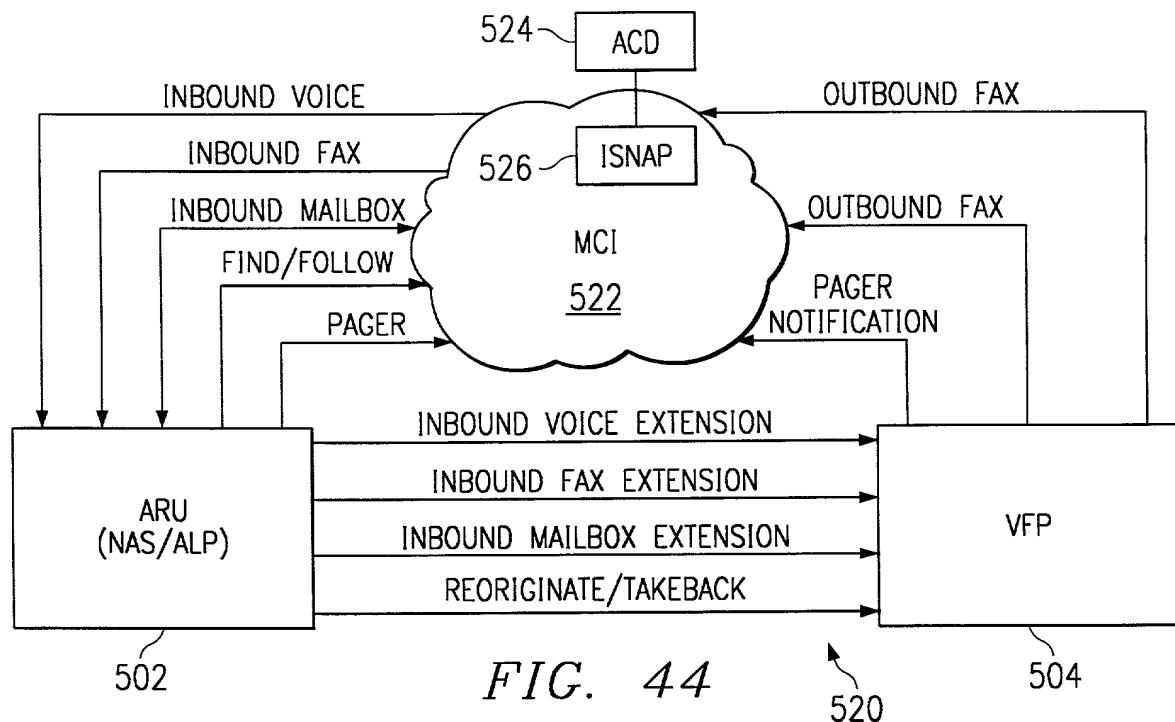


FIG. 44

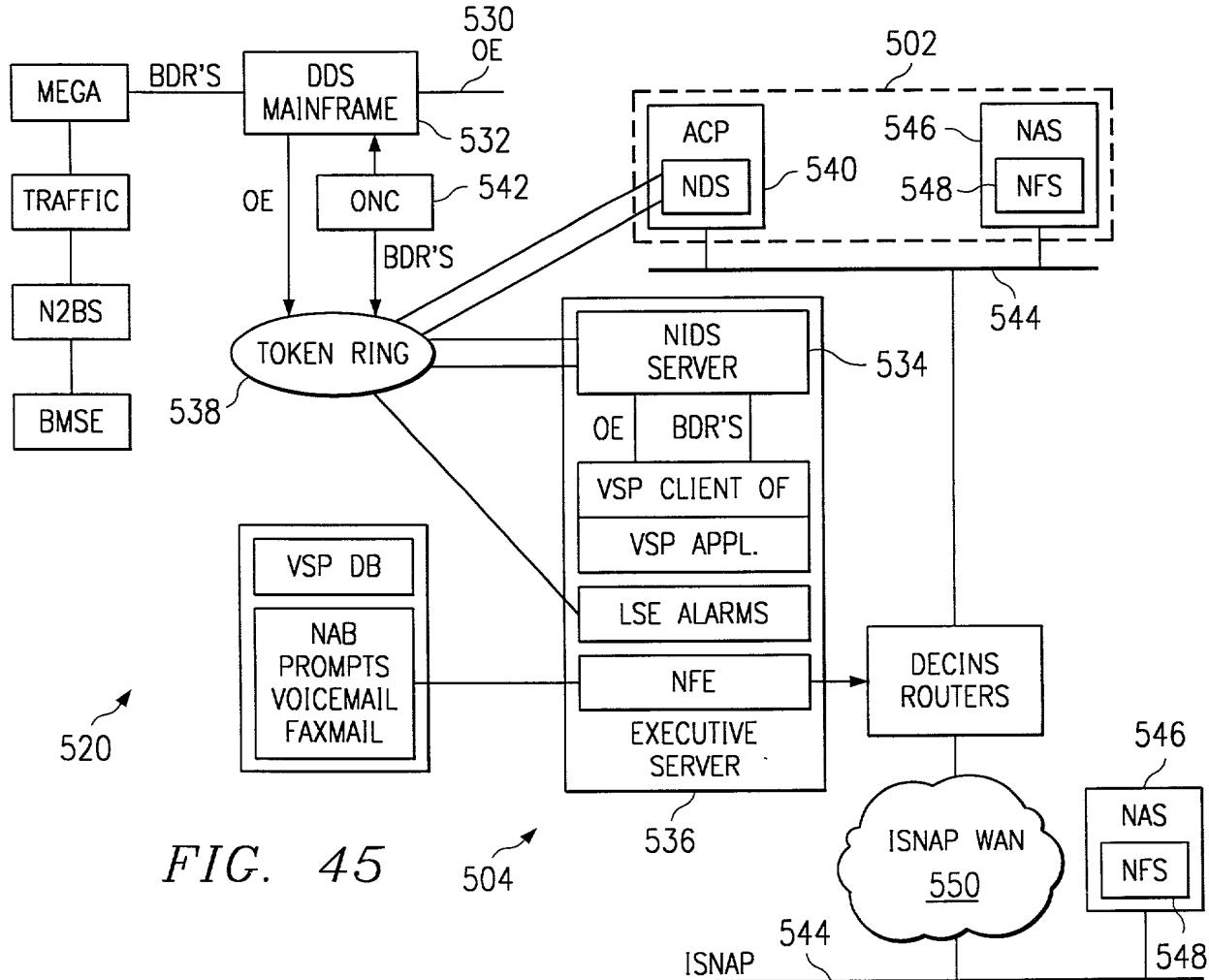


FIG. 45

Inventors: ELLIOT et al.

Sheets of Drawings 41 of 134

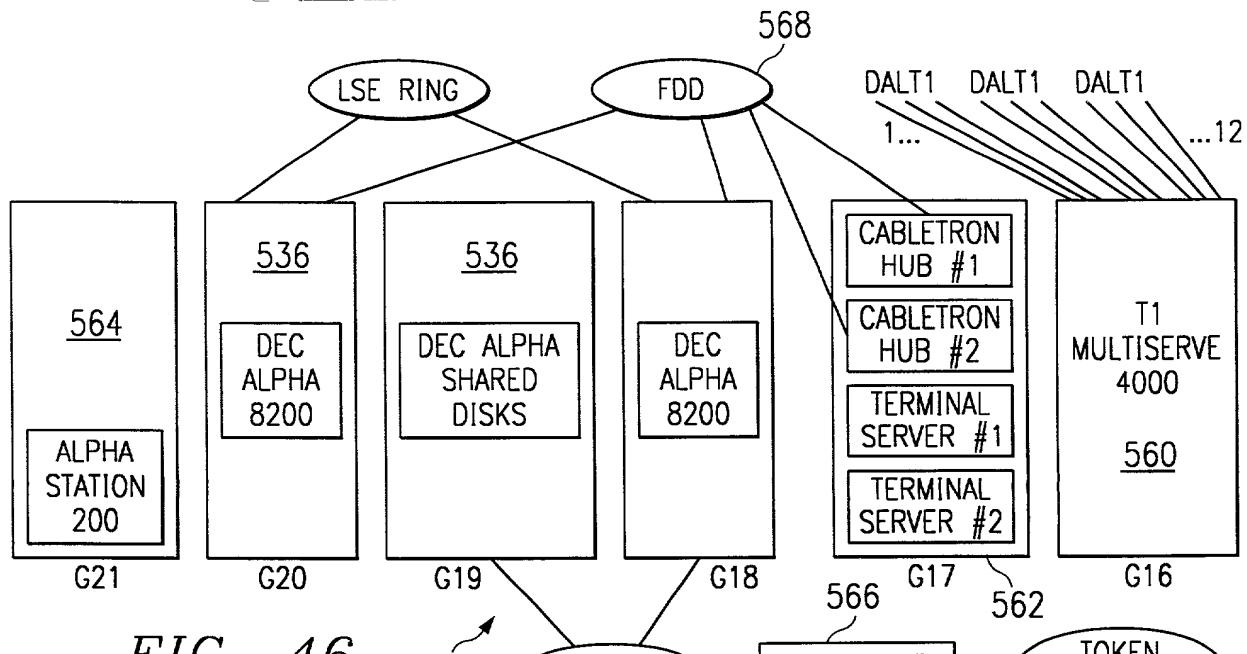


FIG. 46

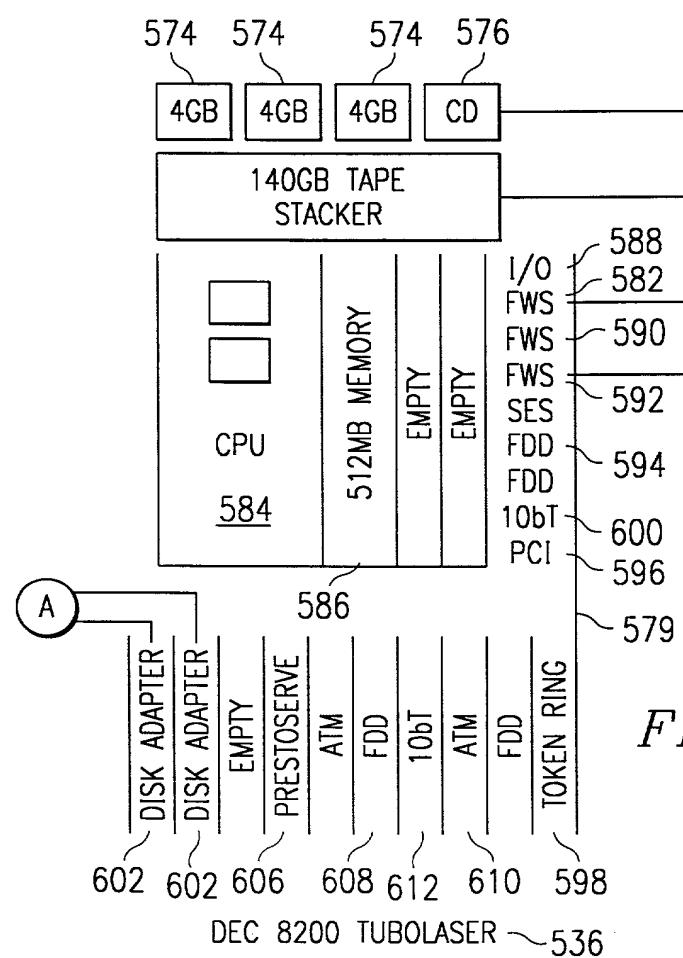


FIG. 48B

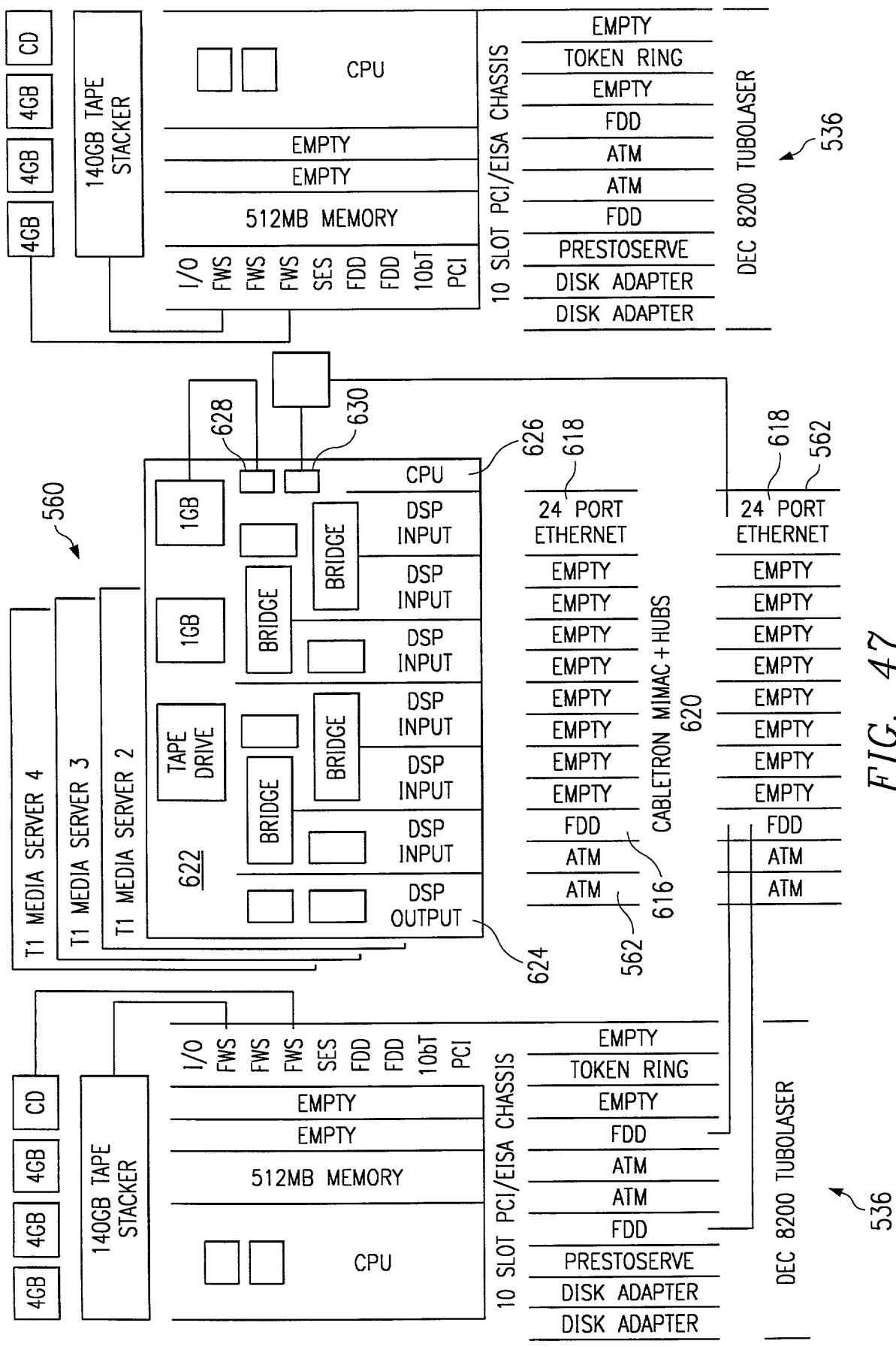
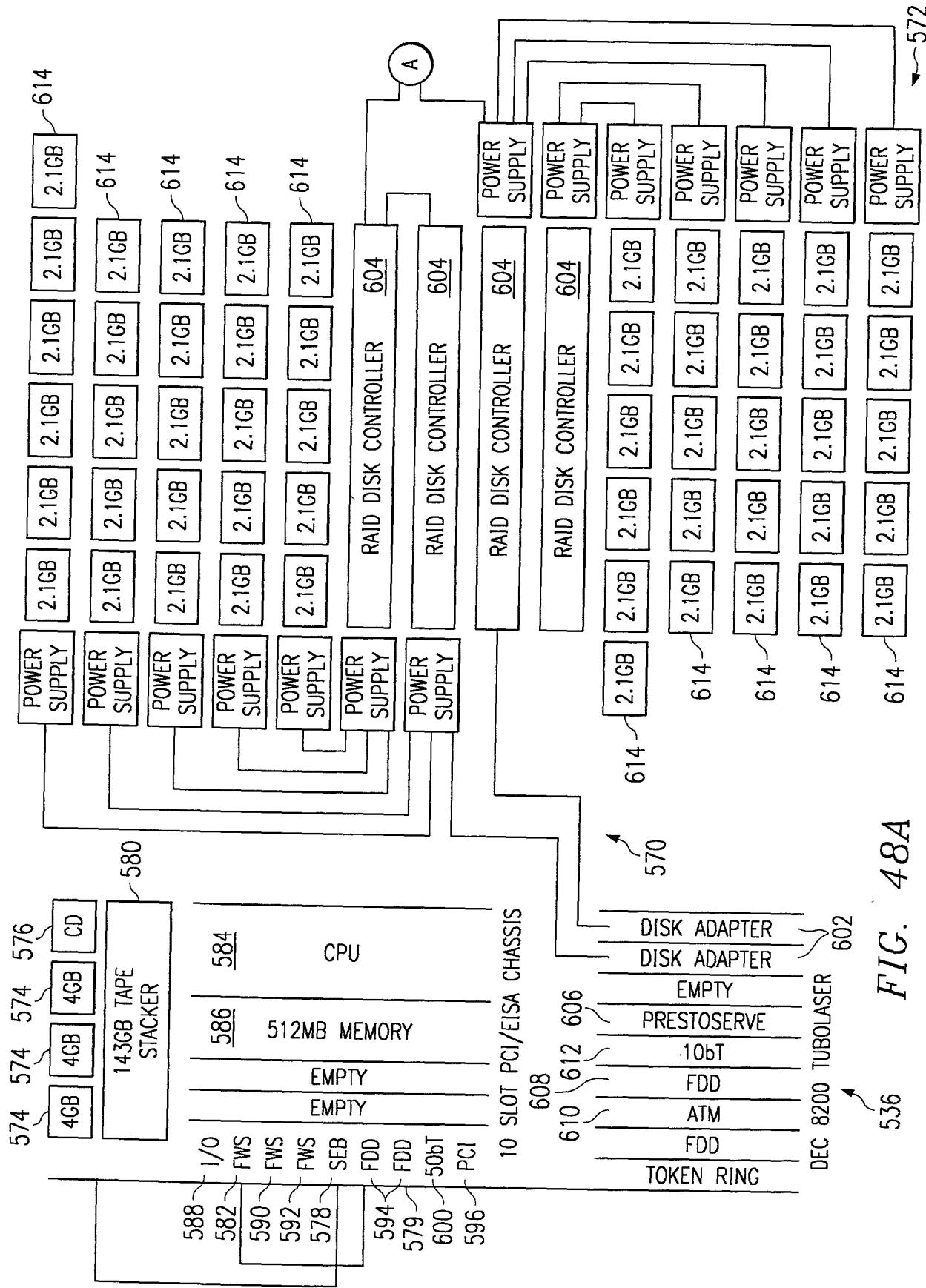


FIG. 47



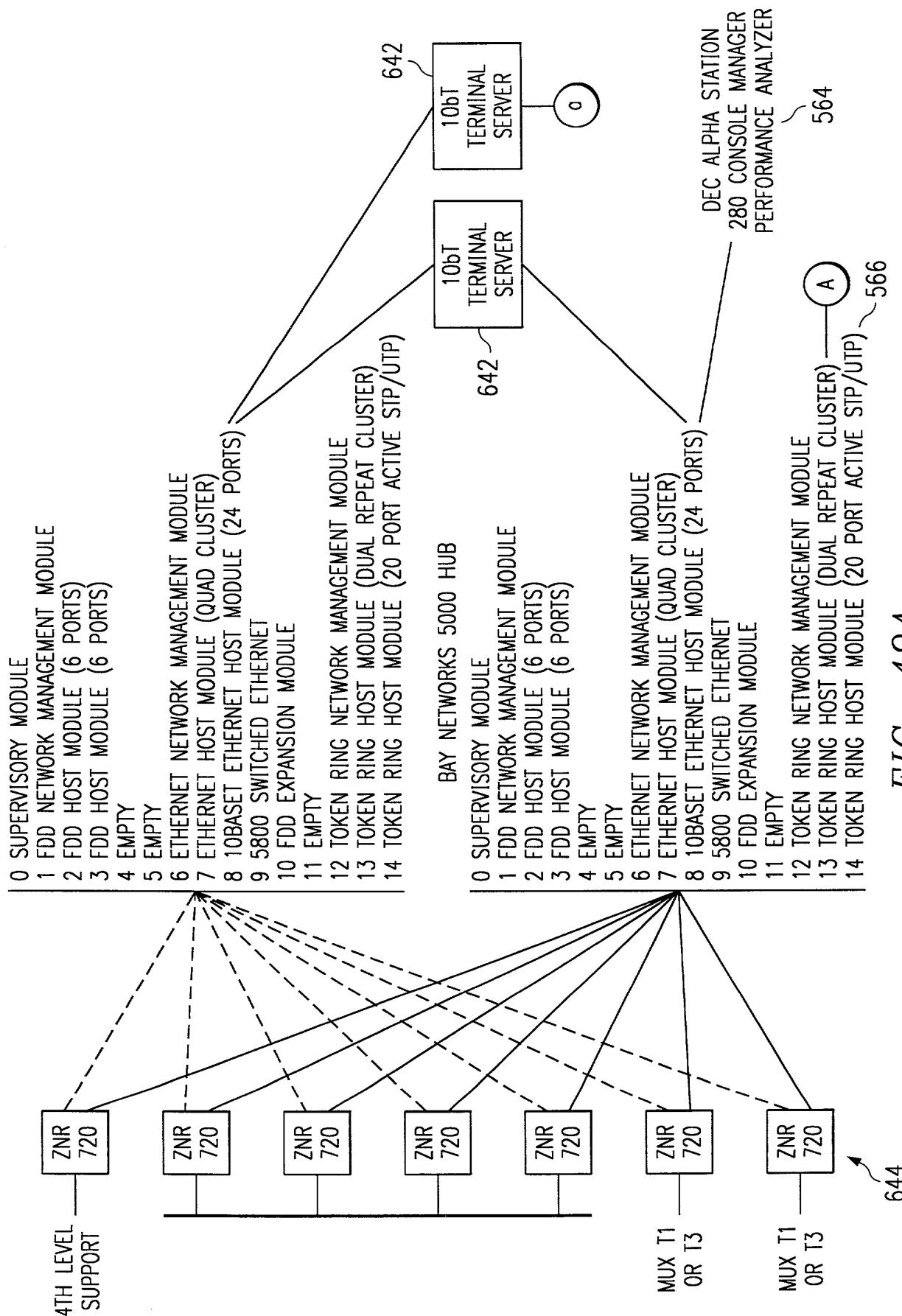
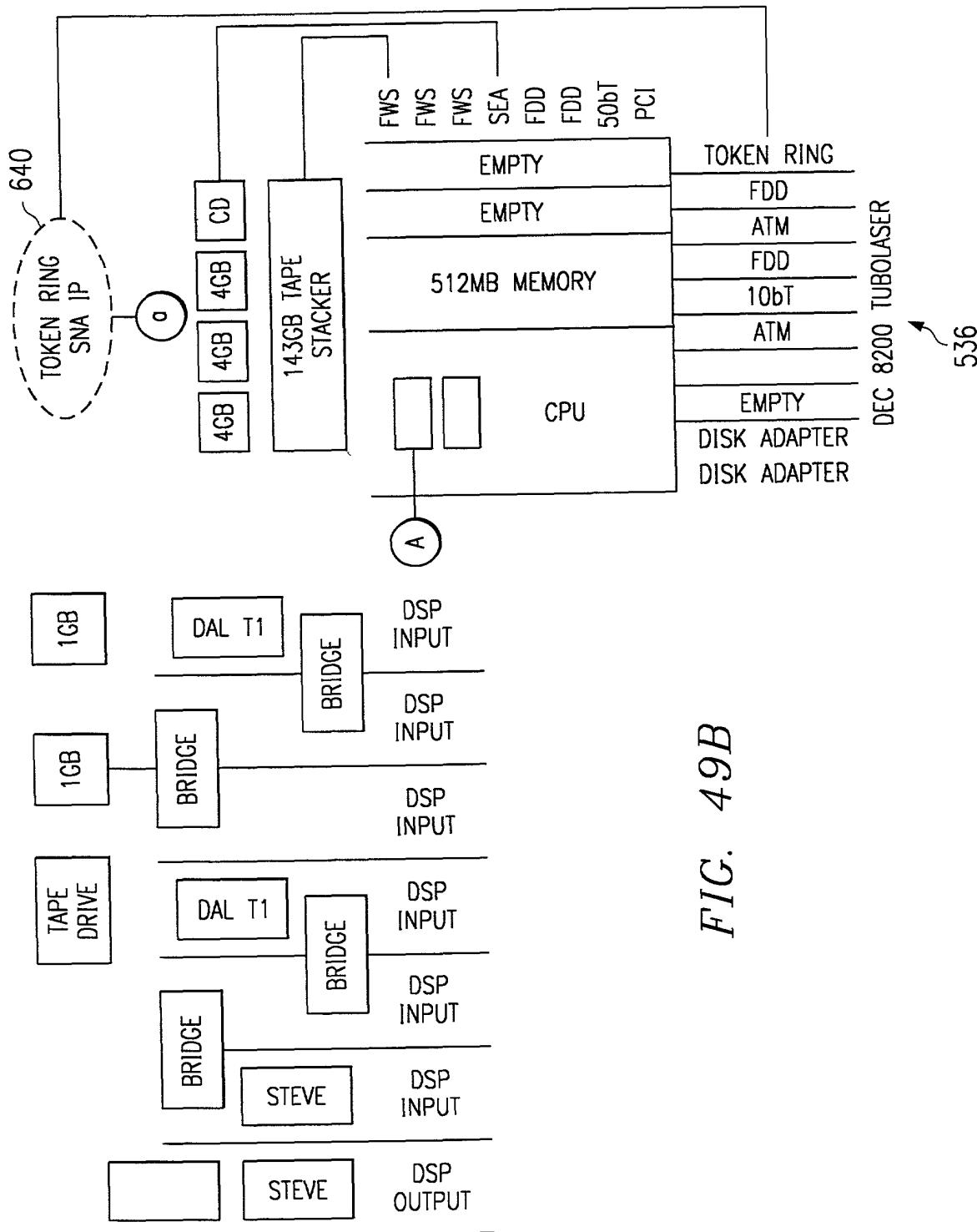


FIG. 49A



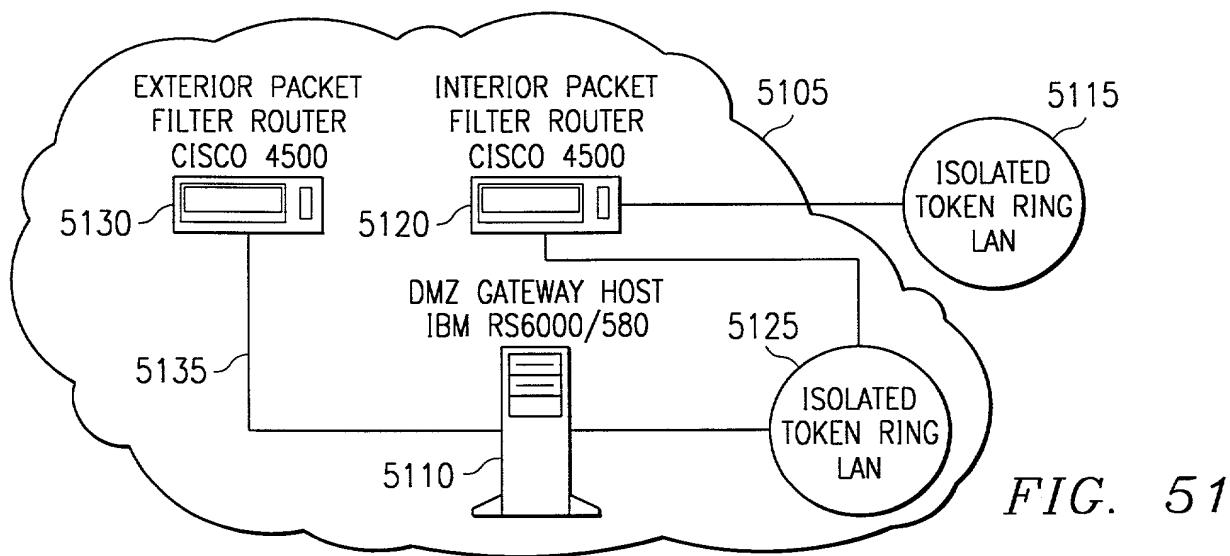
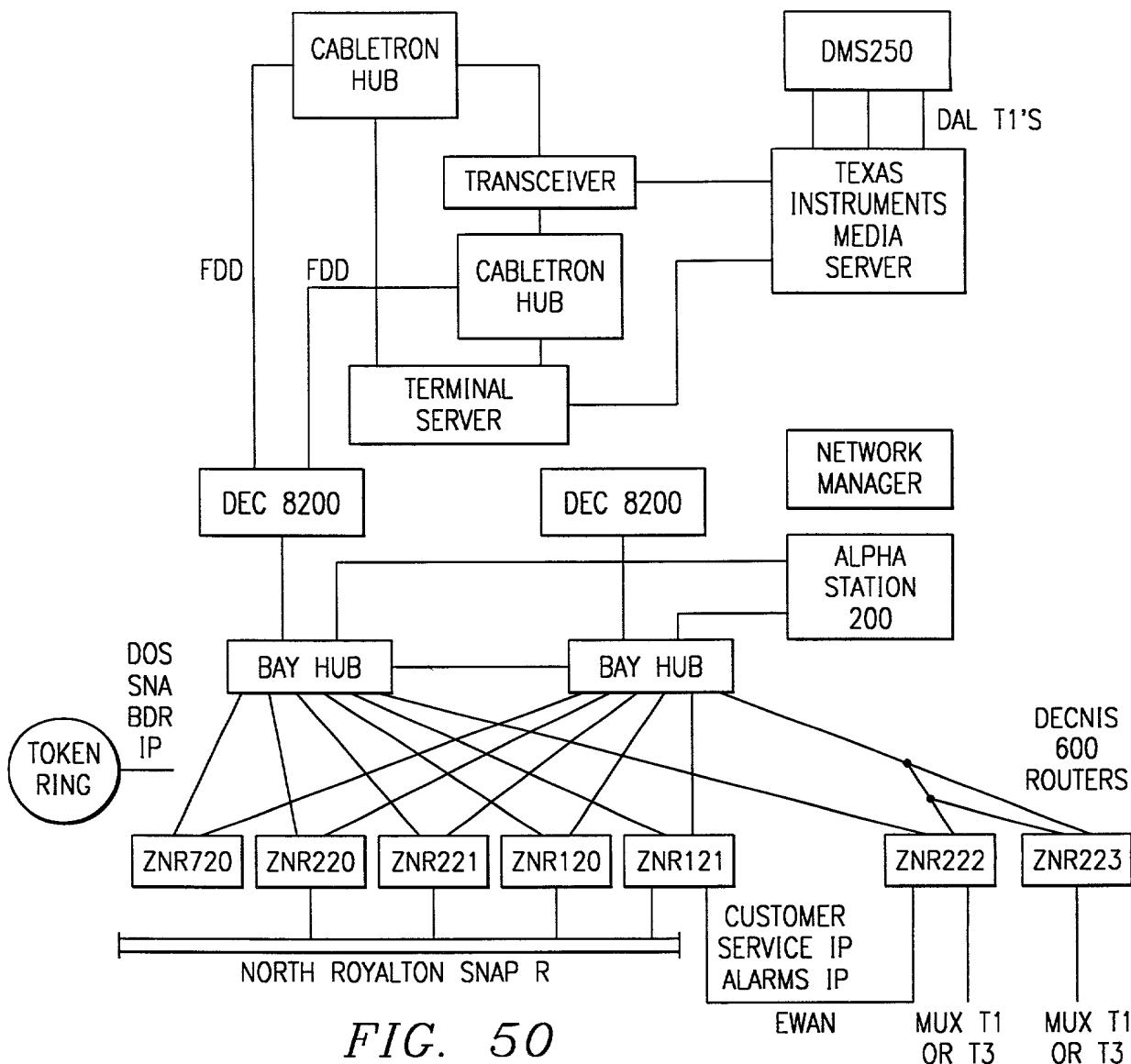


FIG. 51

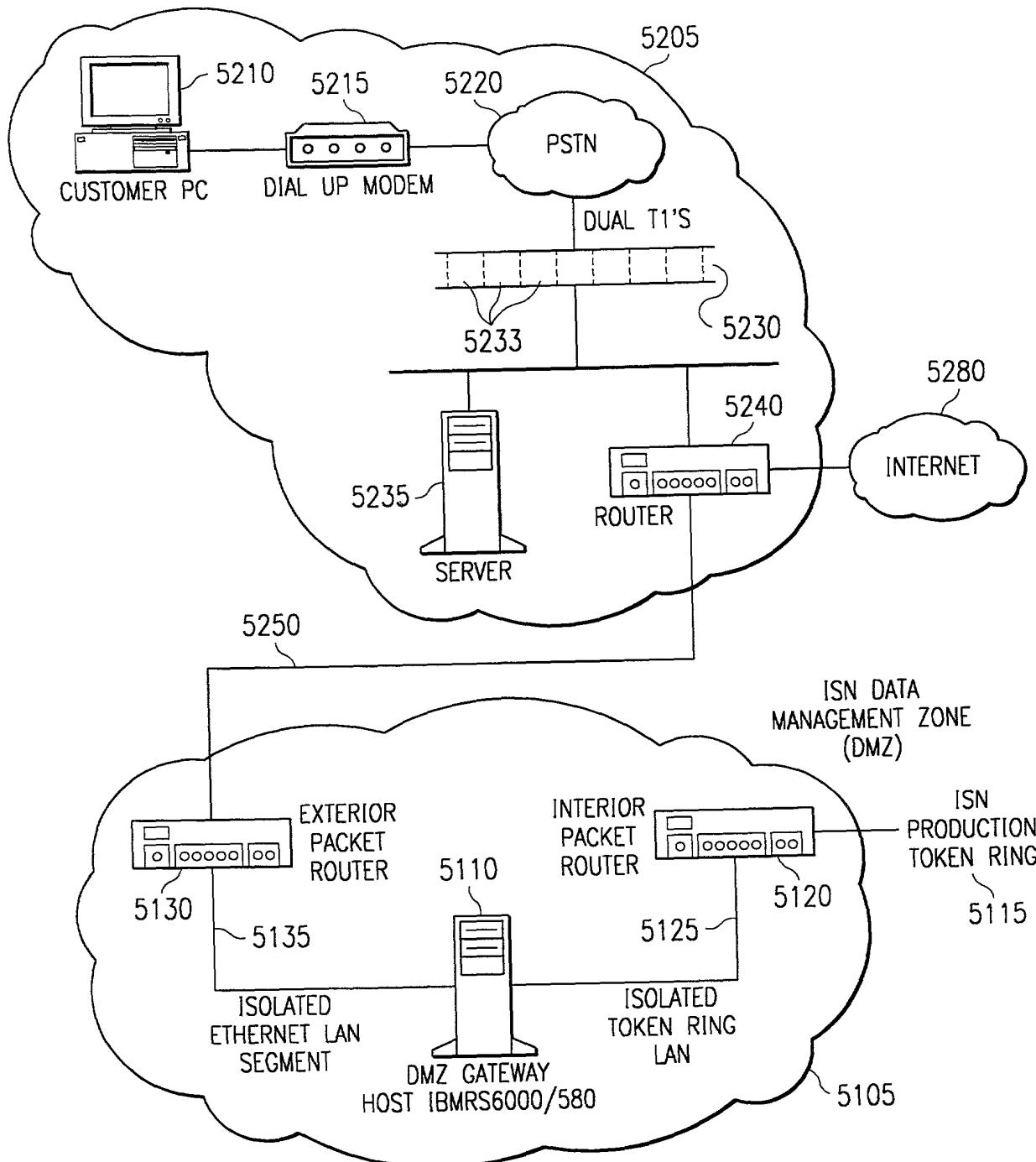
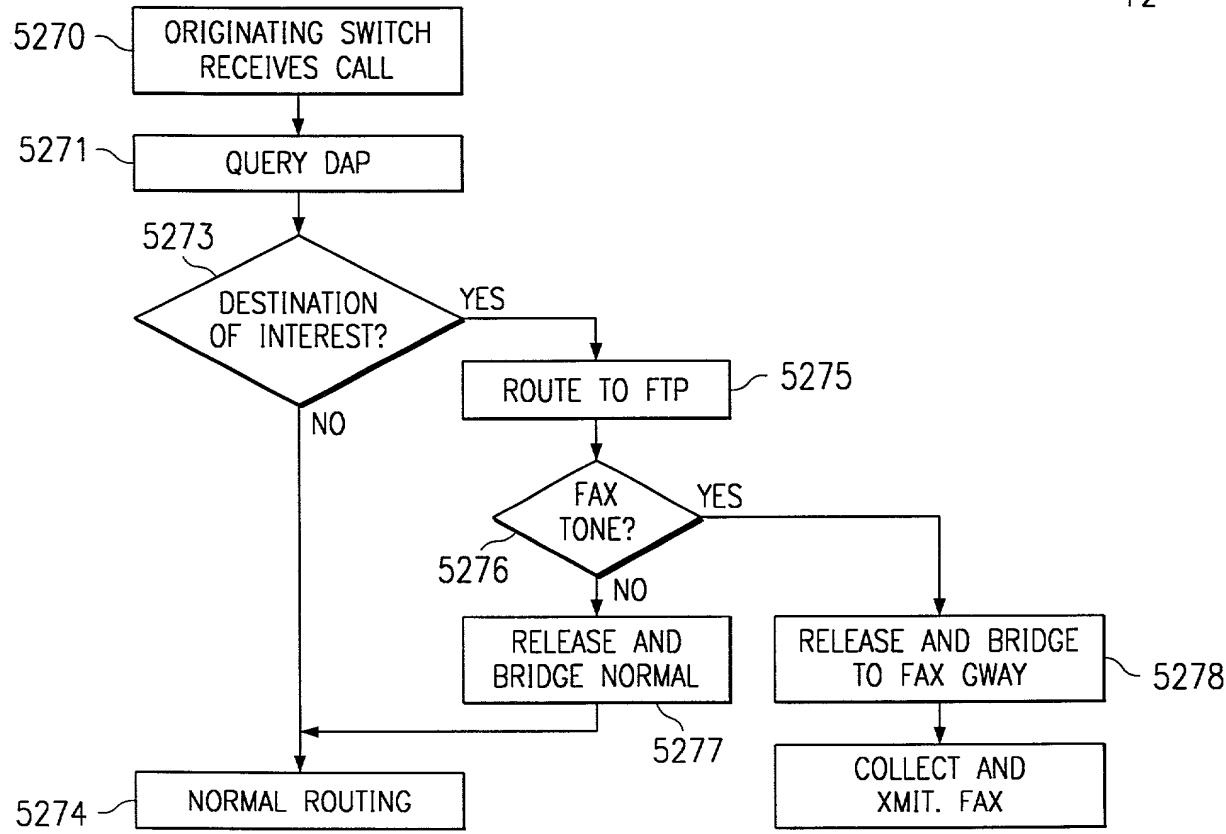
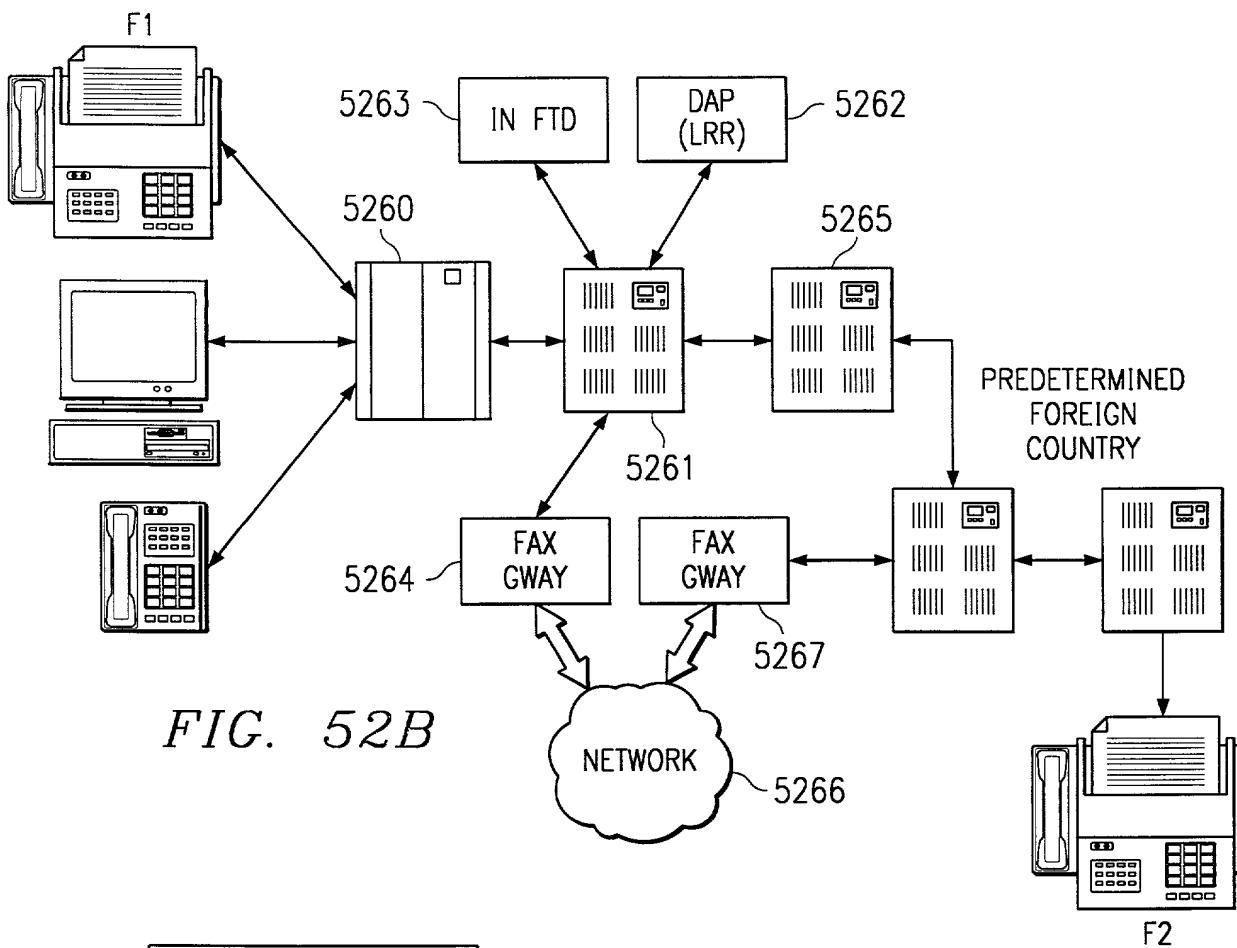


FIG. 52A



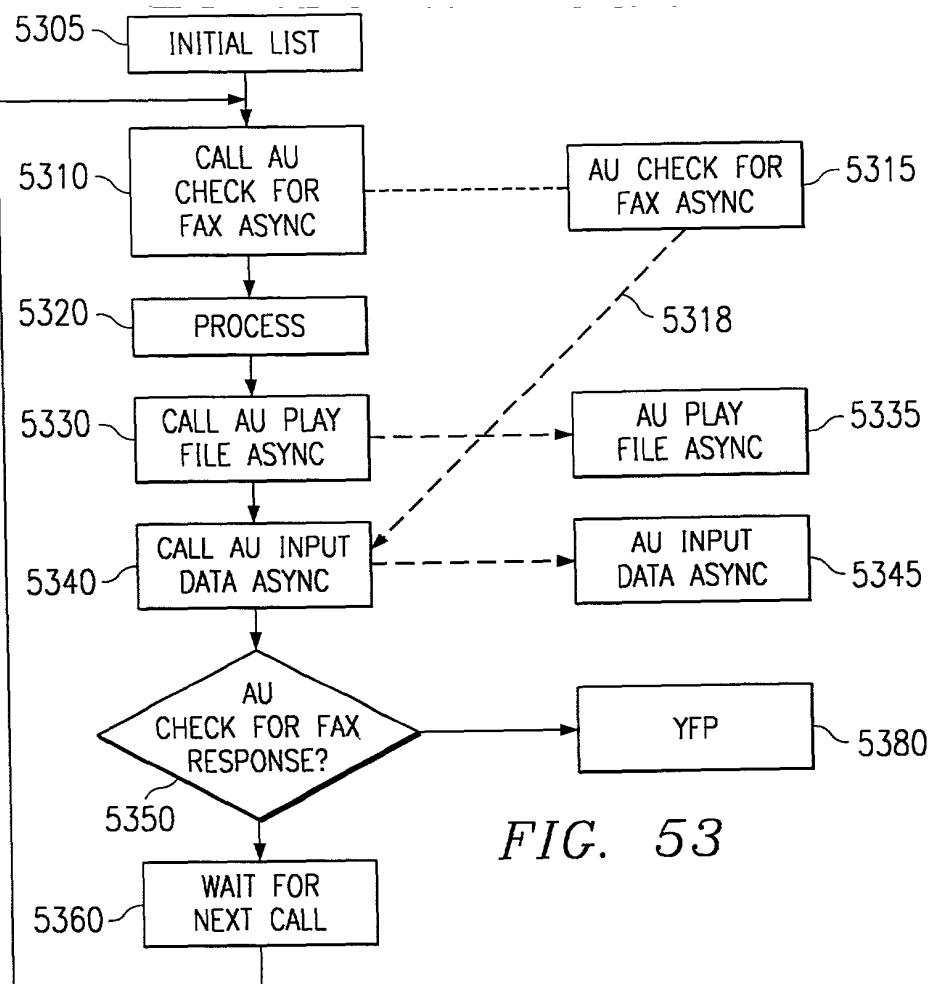


FIG. 53

## directlineMCI Profile Management

Welcome to directlineMCI on-line Profile Management.  
Please enter your directlineMCI Number and Passcode below.

directlineMCI Number:  702

Passcode:  704

700

FIG. 57

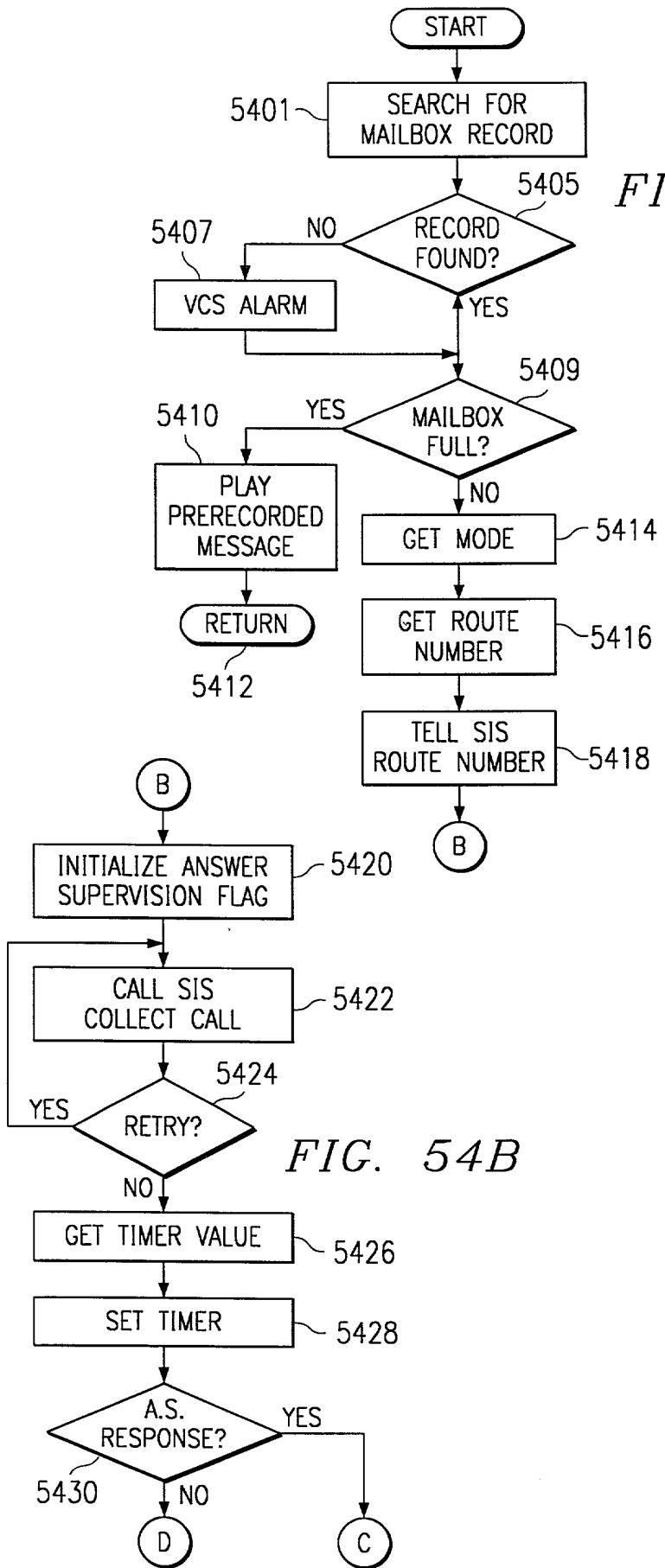


FIG. 54A

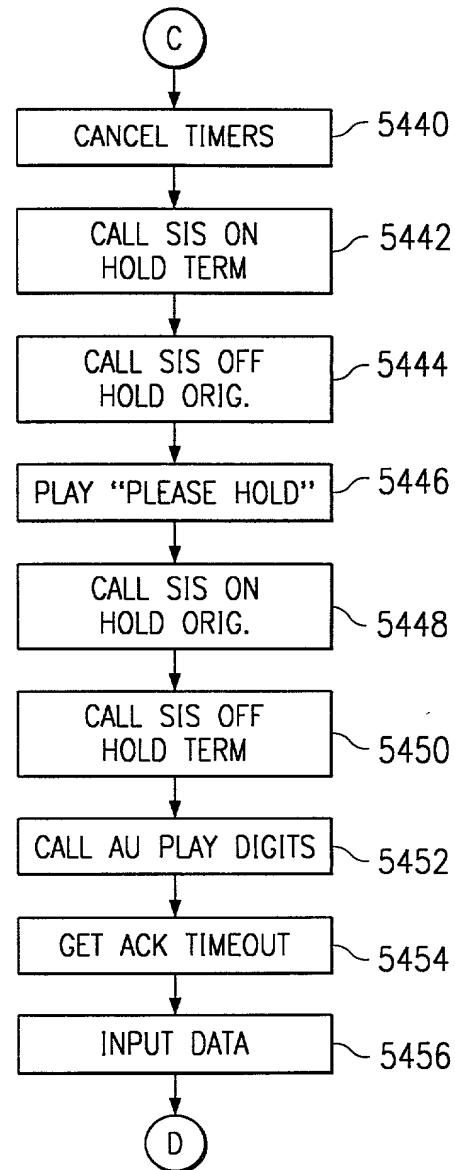


FIG. 54C

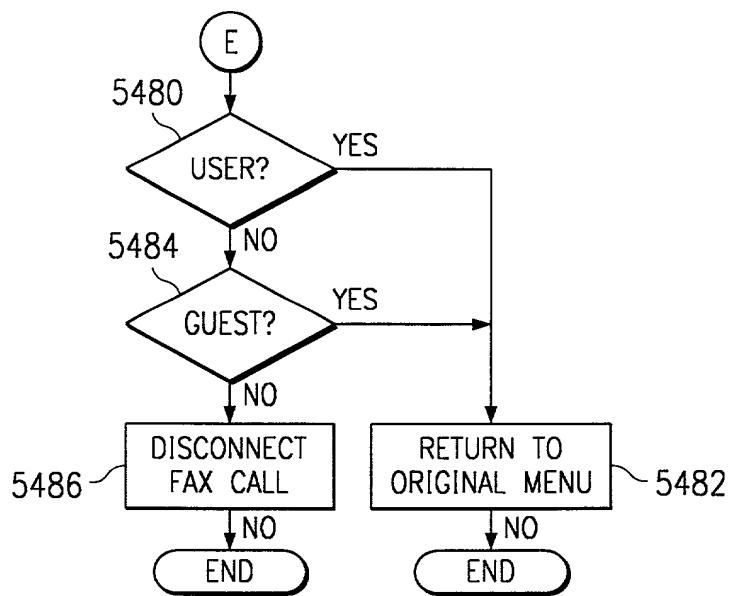
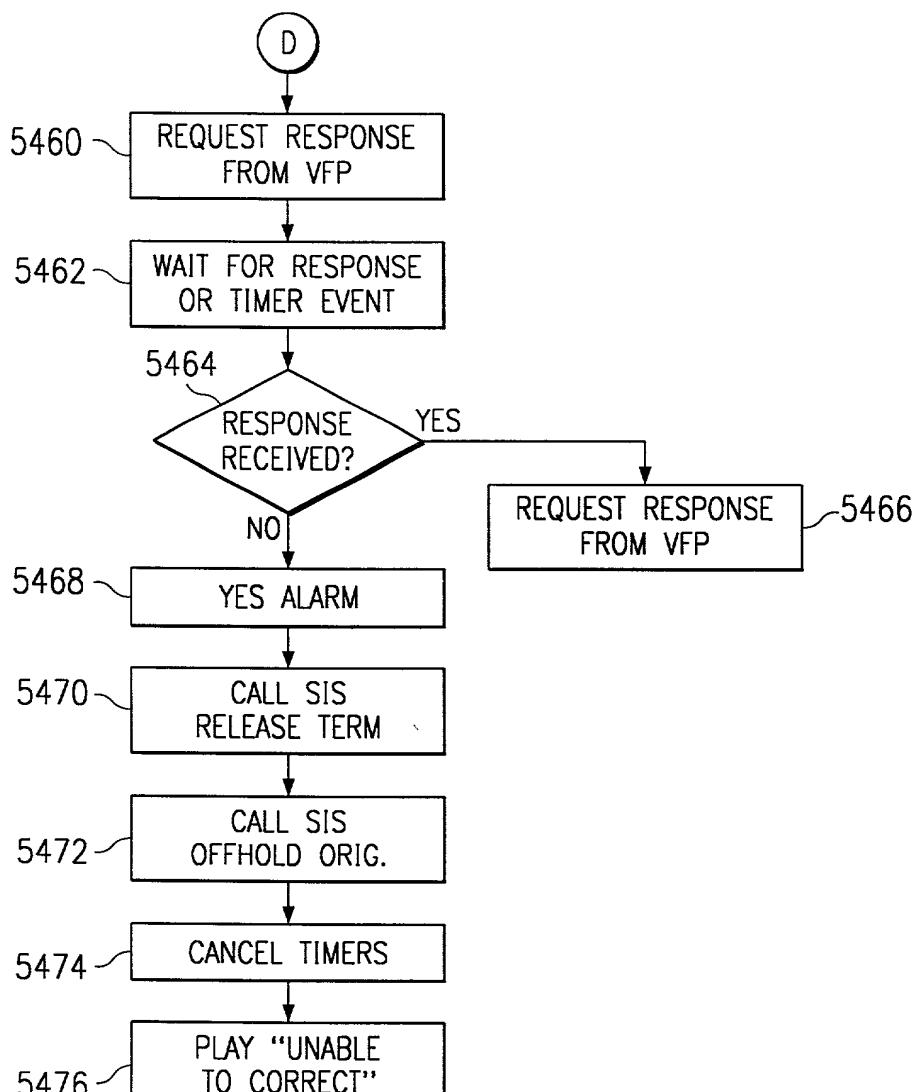


FIG. 54E

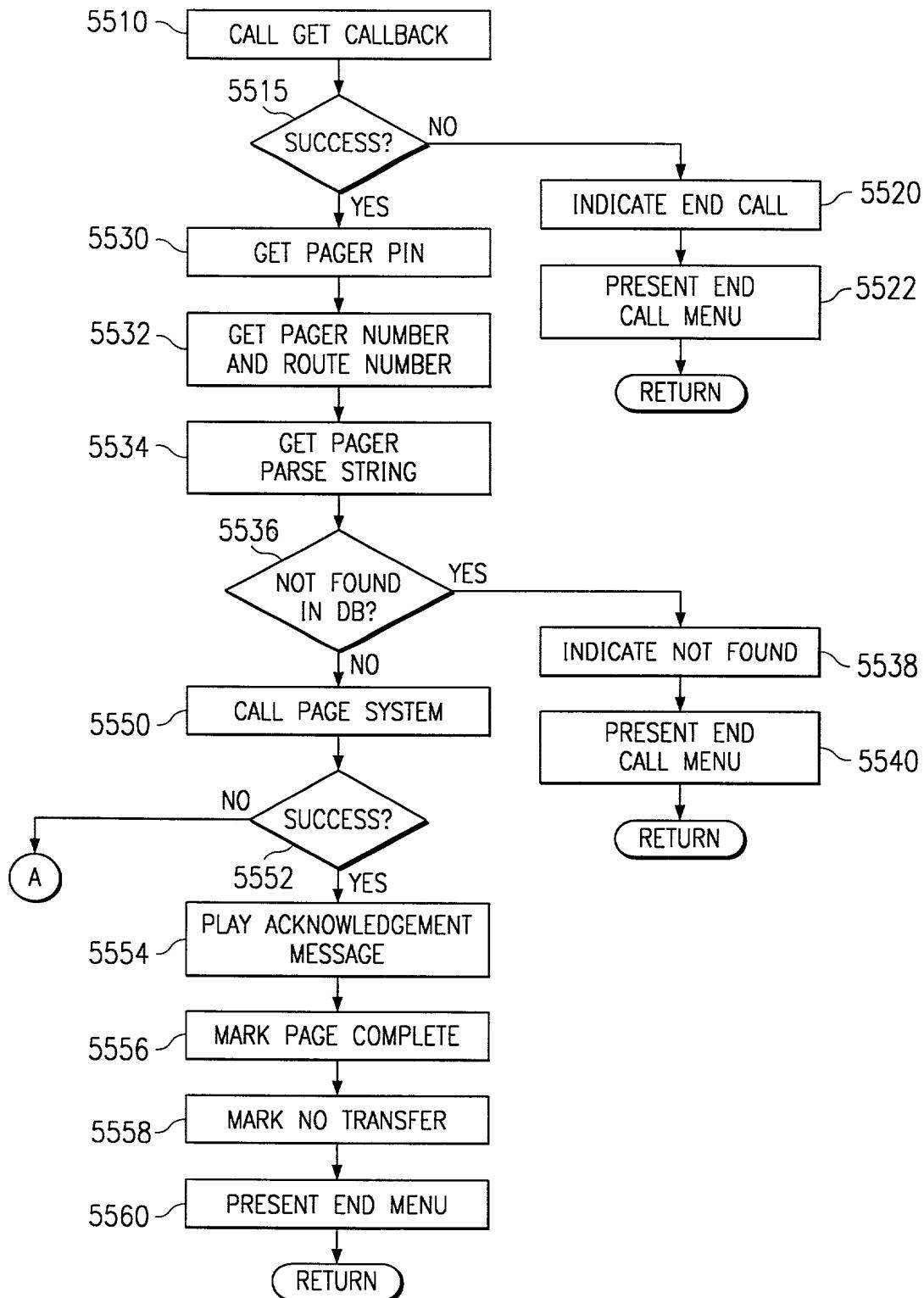


FIG. 55A

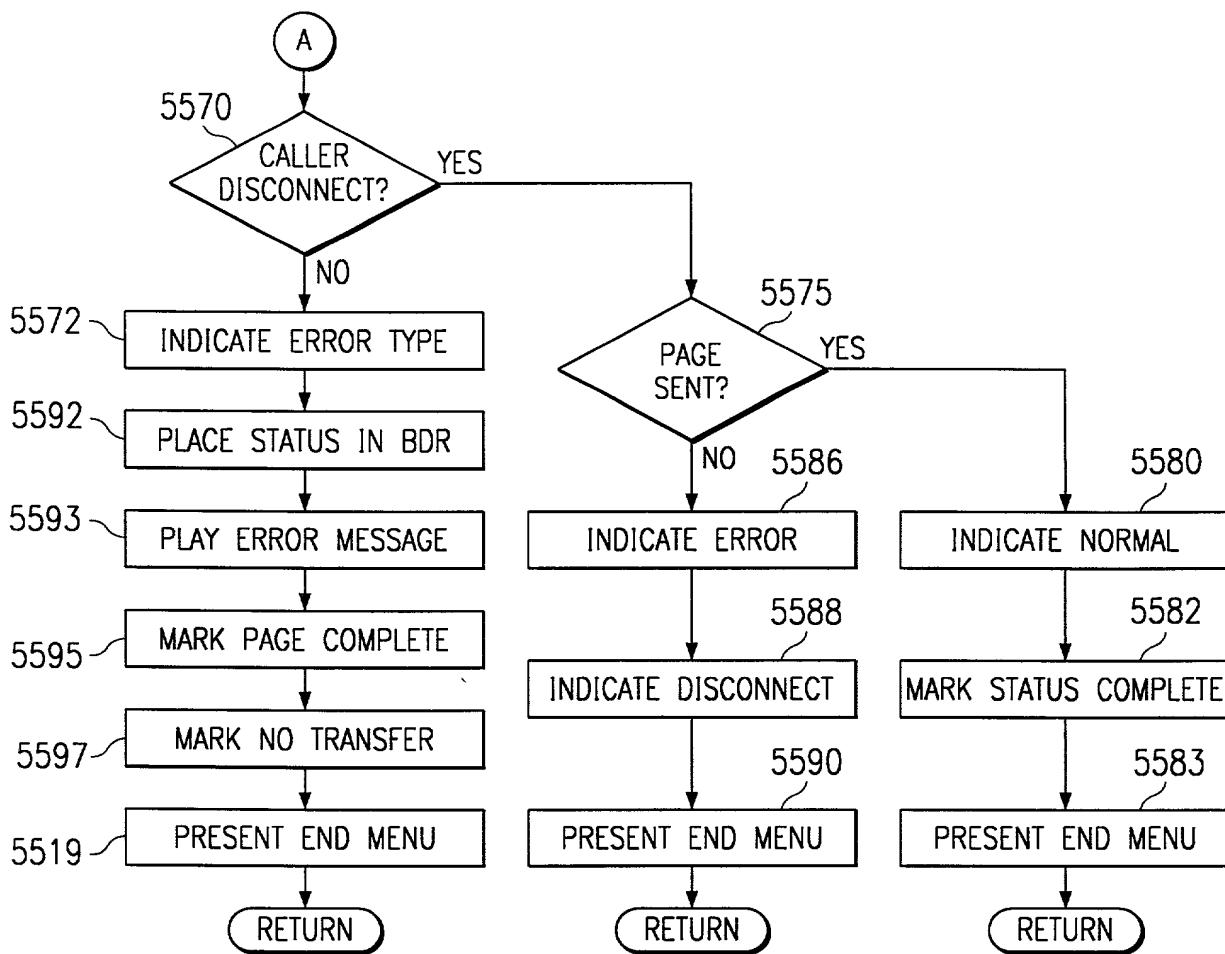


FIG. 55B

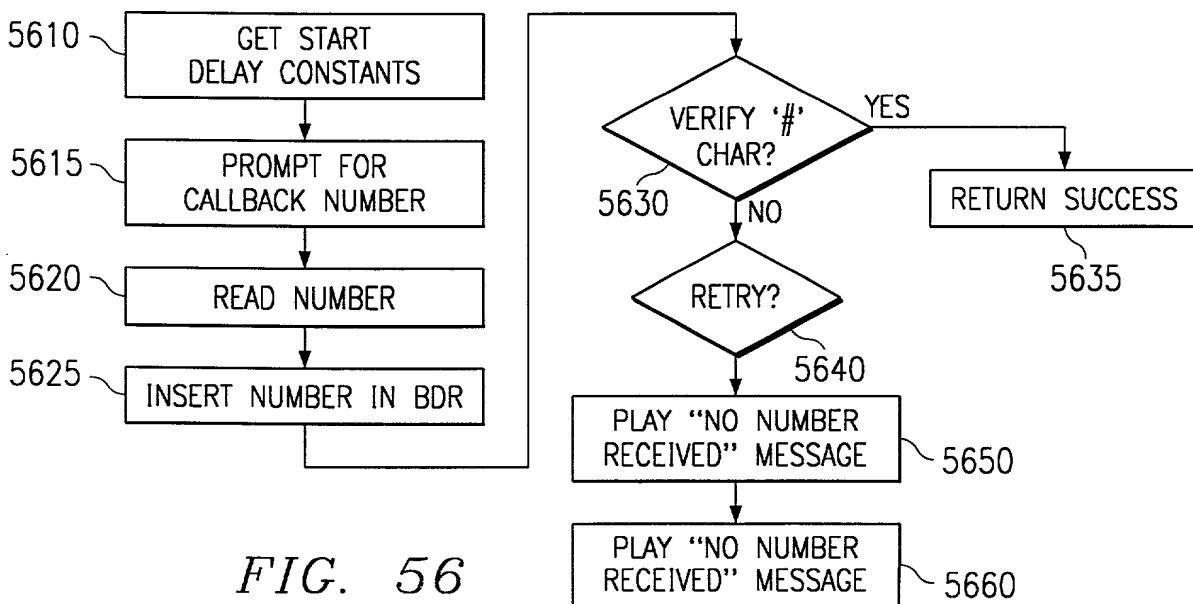


FIG. 56

714

## Call Routing

712  Do Not Accept Calls

If you elect not to accept calls, your callers will receive a message informing them that you are not accepting calls through your directlineMCI number.

Q Accept Calls

716

Choose from the selections below:

## Guest Menu

No Menu – Override Routing

When I cannot be reached, route my calls to:

### Voicemail

○ Page

Voicemail or Pager

Closing Message (notifies guests to try you later)

## Update Call Routing

**Reset**

710

FIG. 58

## Speed Dial Numbers

You can program up to 9 frequently dialed numbers – either domestic or international – below. For international numbers, include 011, the country and city codes as applicable.

1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>

6	
7	
8	
9	

## Update Speed Dial Numbers

Reset

744

FIG. 61

## Guest Menu

In order to complete the selections on this screen, please make sure you have checked this option, 'Guest Menu', on the Routing Screen. If you have not, please return to the Call Routing Screen and select this option.

Present the following selected options to my guests:

732  Find-Me Routing\*

(This option allows the guest to speak to you directly)

Schedule Routing

(To set schedule routing, call directlineMCI Customer Service at  
1-800-870-5898)

Three Number Sequence

(Enter up to three phone numbers to locate you and the maximum number of rings for each number. For international numbers include 011, the country and city codes as applicable)

1st #

2nd #

3rd #

Number

Ring Limit  
(1 to 16 rings)

734  Leave a Voicemail\*

736  Send a Fax\*

738  Send a Page

\* To select or deselect this option, you must contact directlineMCI Customer Service at 1-800-870-5898.

## No Menu - Override Routing

In order to complete the selections on this screen, please make sure you have checked this option, 'No Menu - Override' on the Call Routing Screen. If you have not, please return to Call Routing Screen and select this option.

Route my guests to:

Find-Me Routing

(This option allows the guest to speak to you directly)

Schedule Routing

(To set schedule routing, call directlineMCI Customer Service at  
1-800-870-5898)

Three Number Sequence

(Enter up to three phone numbers to locate you and the maximum number of rings for each number. For international numbers include 011, the country and city codes as applicable)

1st #

2nd #

3rd #

Number

Ring Limit  
(1 to 16 rings)

Voicemail

Pager

Temporary Override Number

Number Ring Limit

## Voicemail

752  Receive Voicemail Messages\*  
\*To select or deselect this option, you must contact directlineMCI  
Customer Service at 1-800-870-5898.

754  Page me each time I receive a Voicemail Message

750

*FIG. 62*

## Faxmail

762

My primary Fax number is NPA-Nxx-xxxx

764  Recieve Fax Messages\*  
\*To select or deselect this option, you must contact directlineMCI  
Customer Service at 1-800-870-5898.

766  Page me each time I receive a Fax Message

760

*FIG. 63*

## Call Screening

Allow me to screen my incoming calls by:

Name only

(If guest does not provide name, directlineMCI will provide the guest's  
telephone number)

Telephone Number only

Name and Telephone Number

770

*FIG. 64*

Sheets of Drawings: 58 of 134

Error...

Your login attempt has failed; please try again.

If you are unable to login, contact directlineMCI  
Customer Service at 1-800-870-5898

780

*FIG. 65*

Thank you!  
Your \_\_\_\_\_ have been successfully  
updated.

782

*FIG. 66*

Error...

Your 1st Number may not be blank. *– display only when this  
situation occurs*

The number(s) you have entered:

NPA-Nxx-xxxx

NPA-Nxx-xxxx

...

NPA-Nxx-xxxx

are either blocked or invalid. Please check the number(s) and  
attempt to enter again. If you need further assistance, contact  
directlineMCI Customer Service at 1-800-870-5898

784

*FIG. 67*

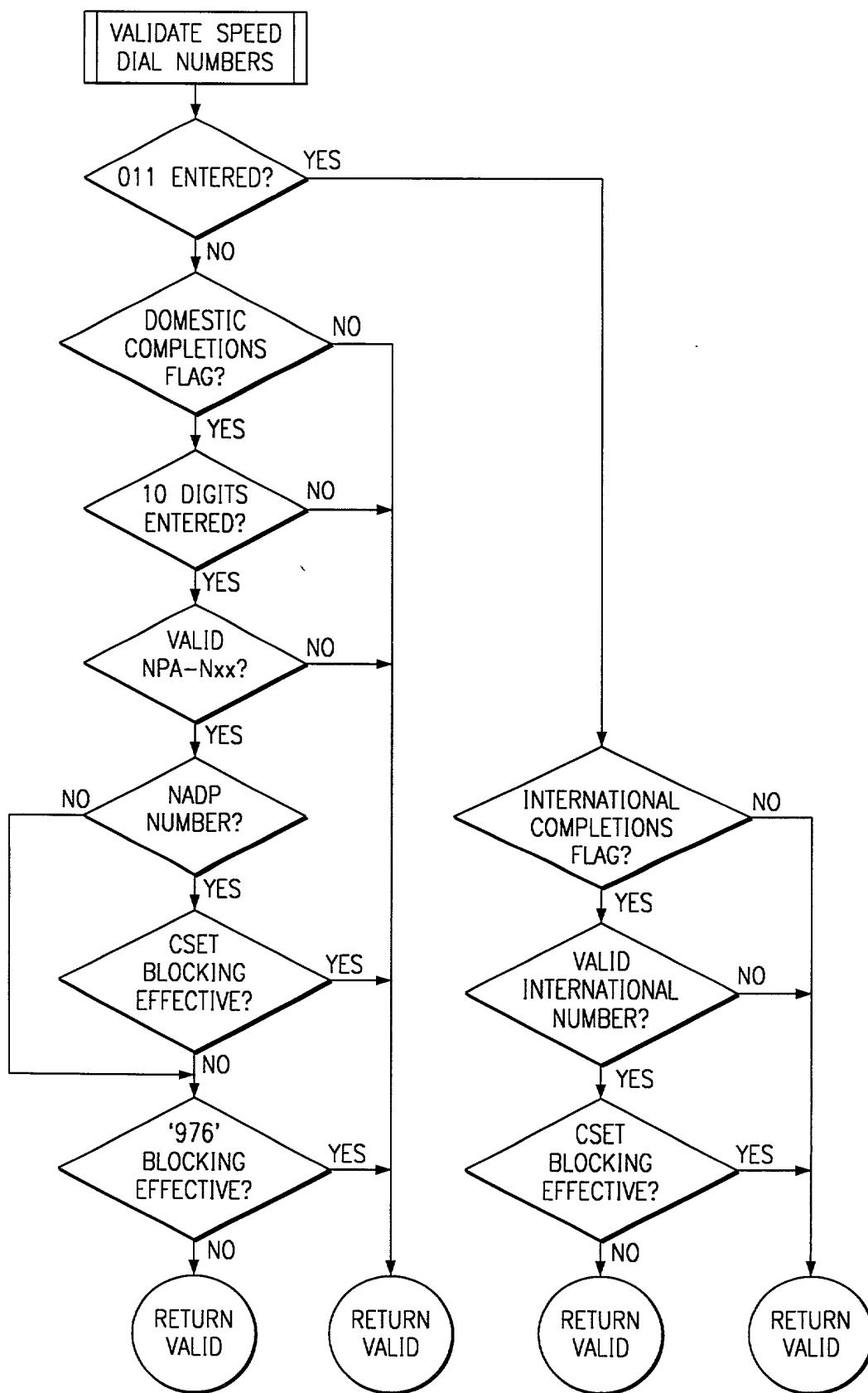


FIG. 68

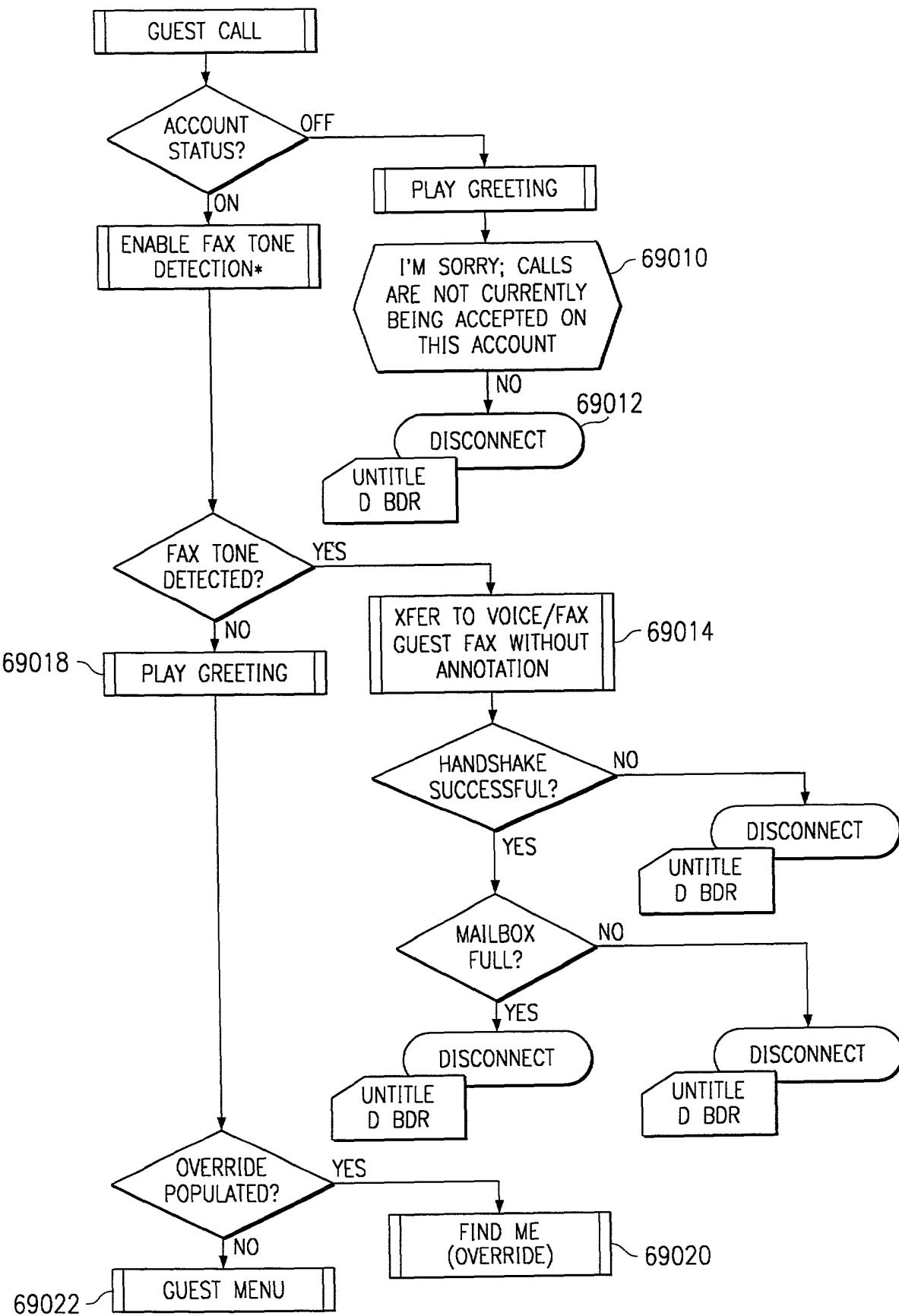


FIG. 69A

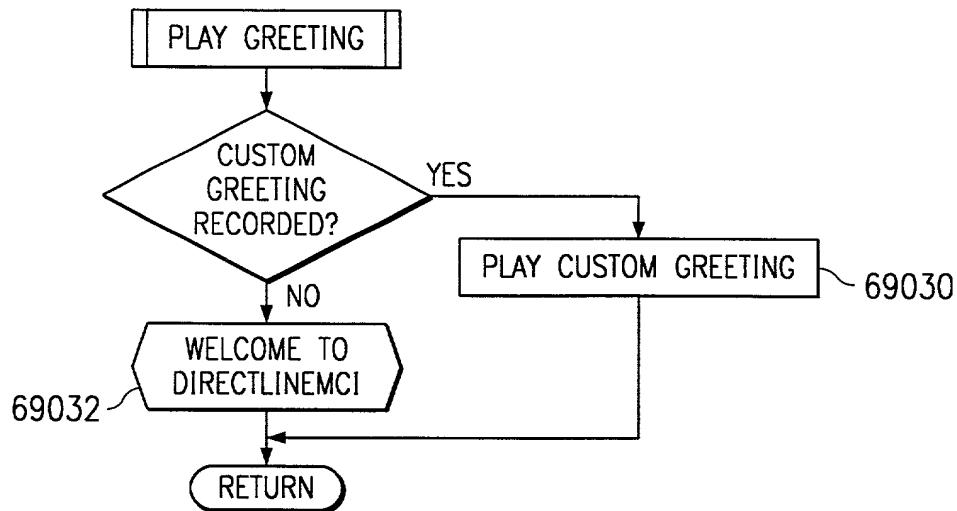


FIG. 69B

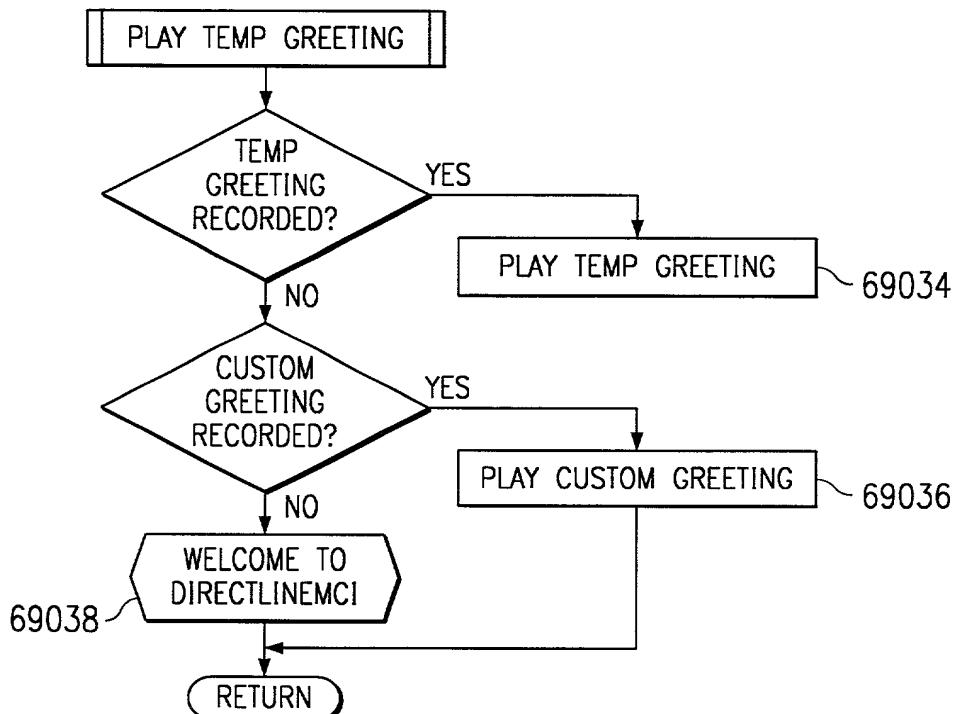


FIG. 69C

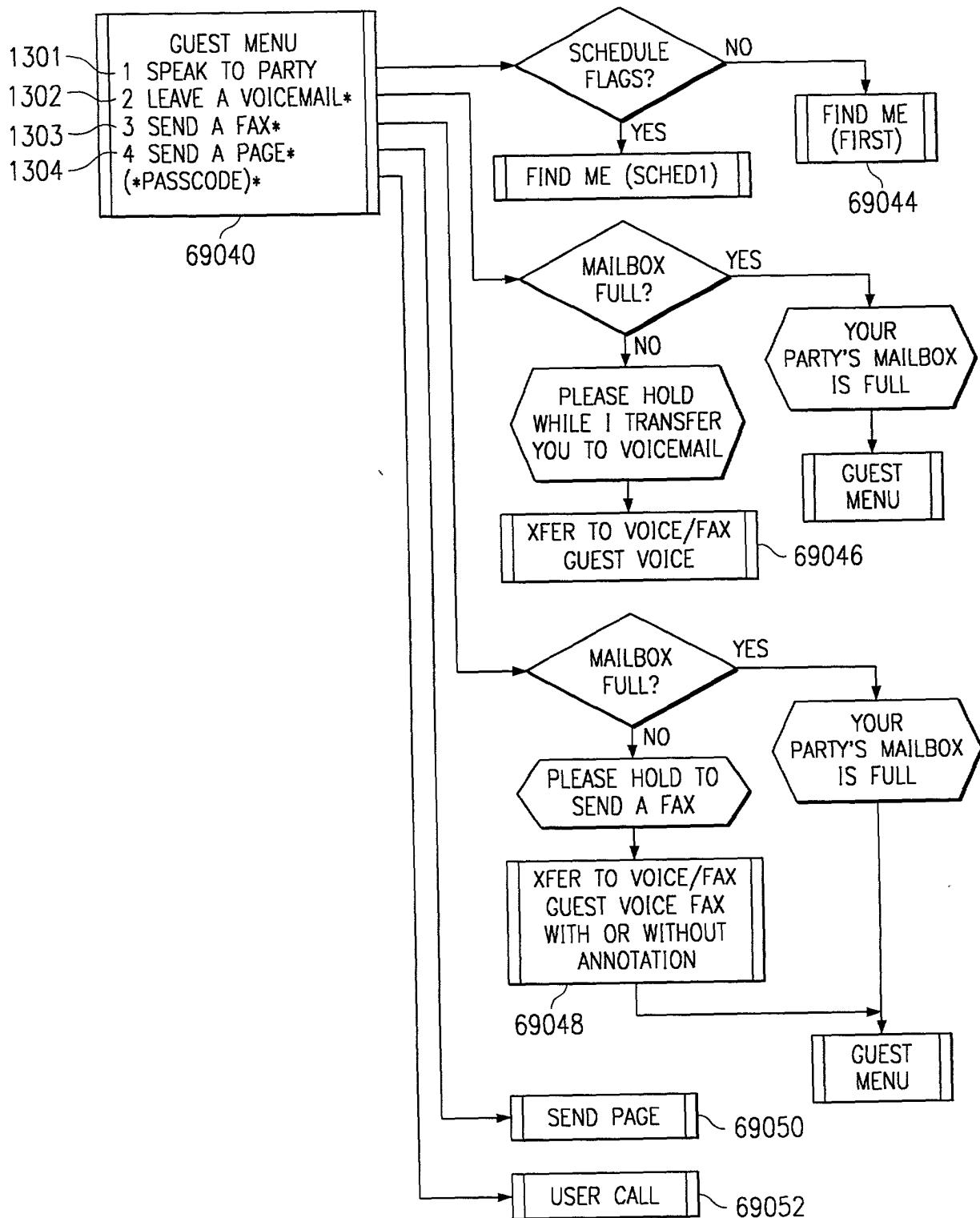


FIG. 69D

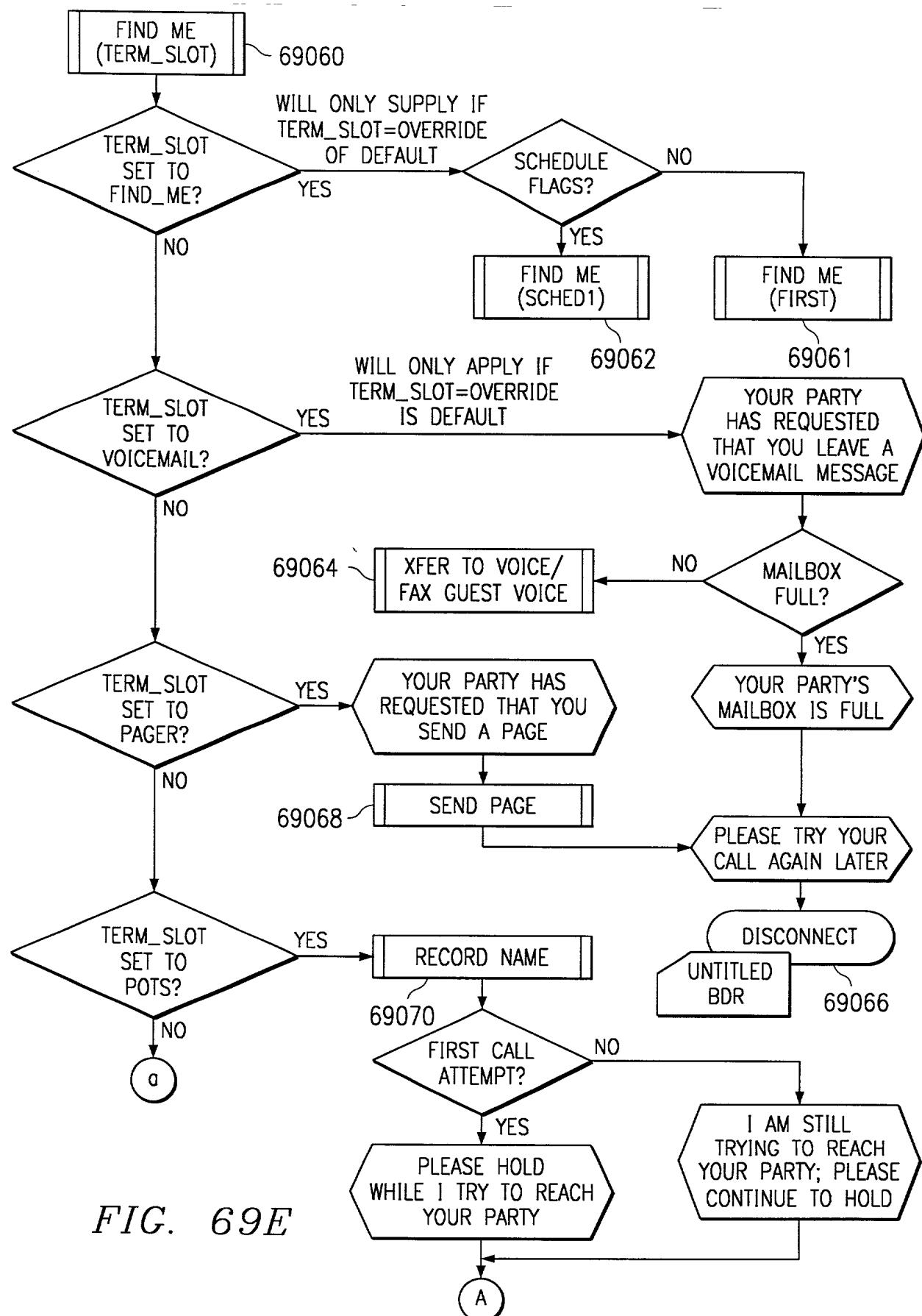


FIG. 69E

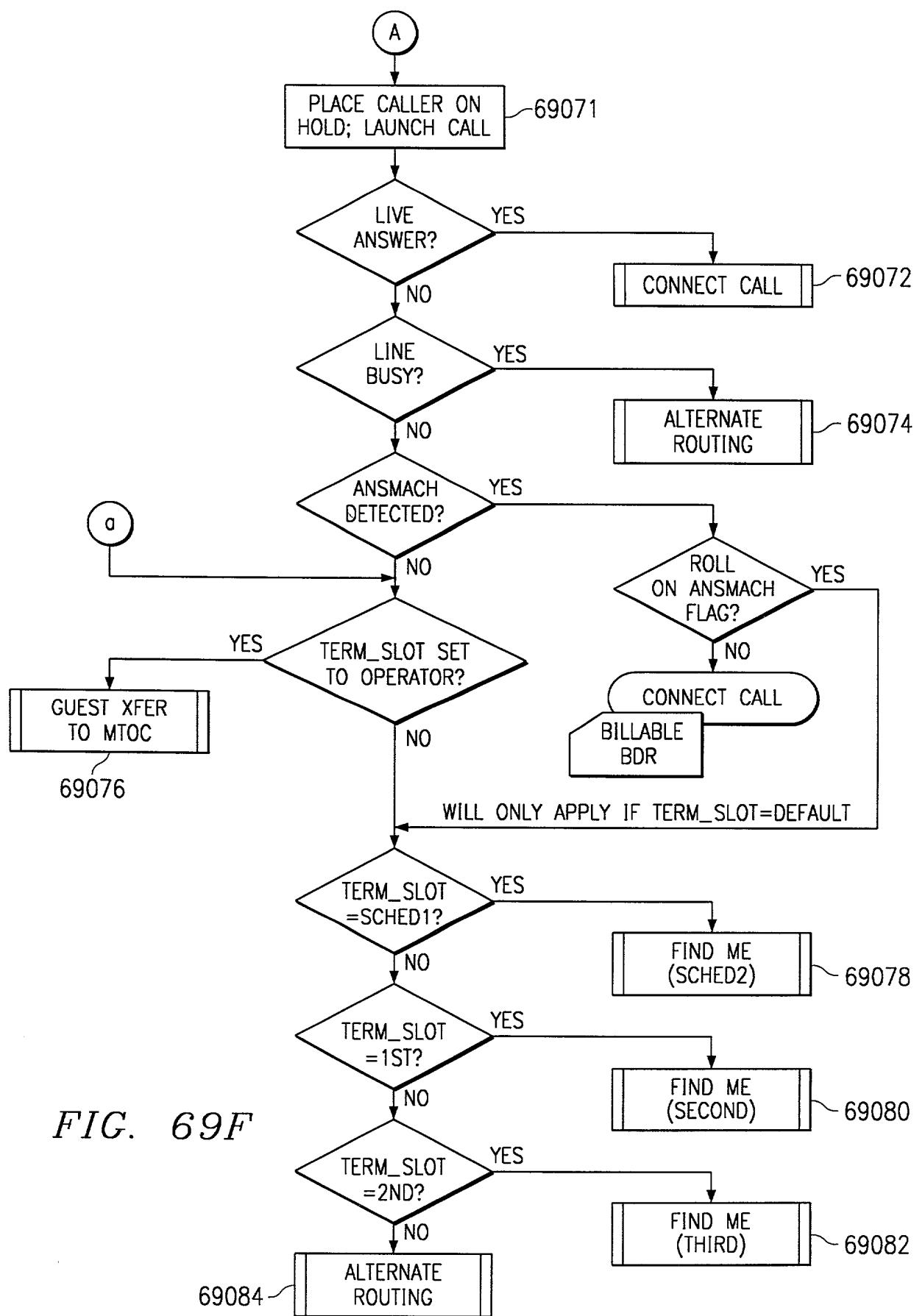
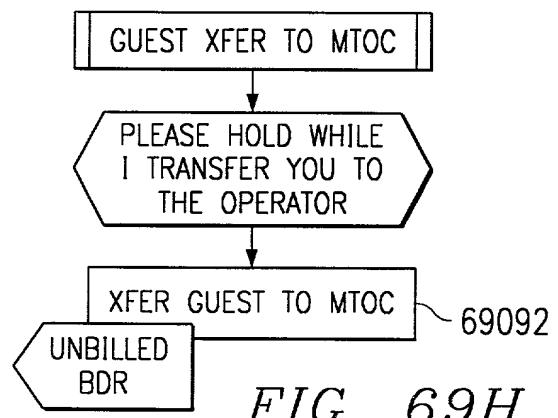
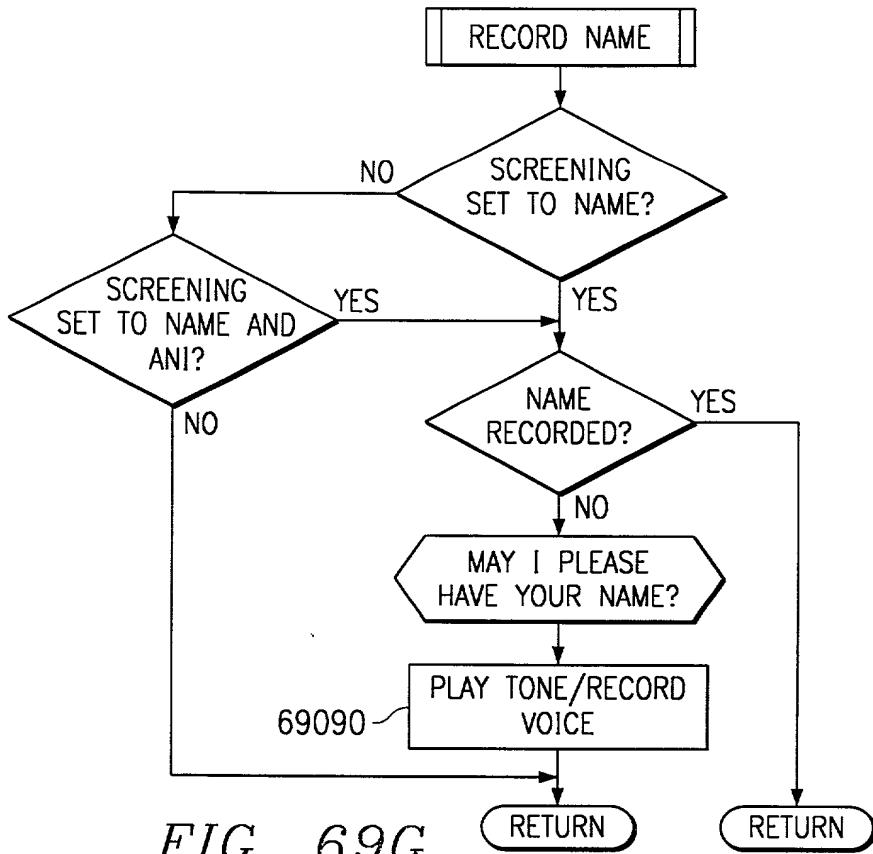


FIG. 69F



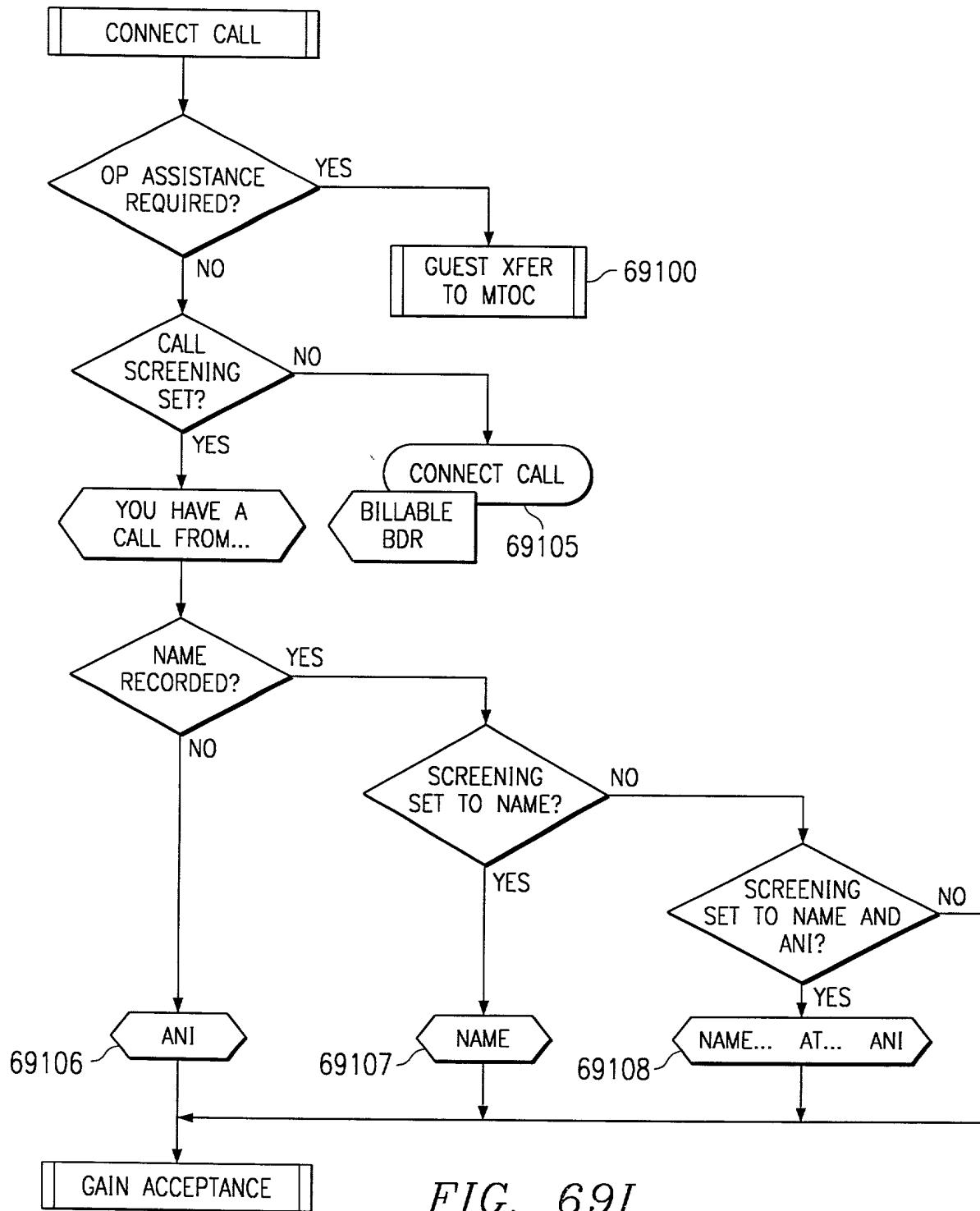


FIG. 69I

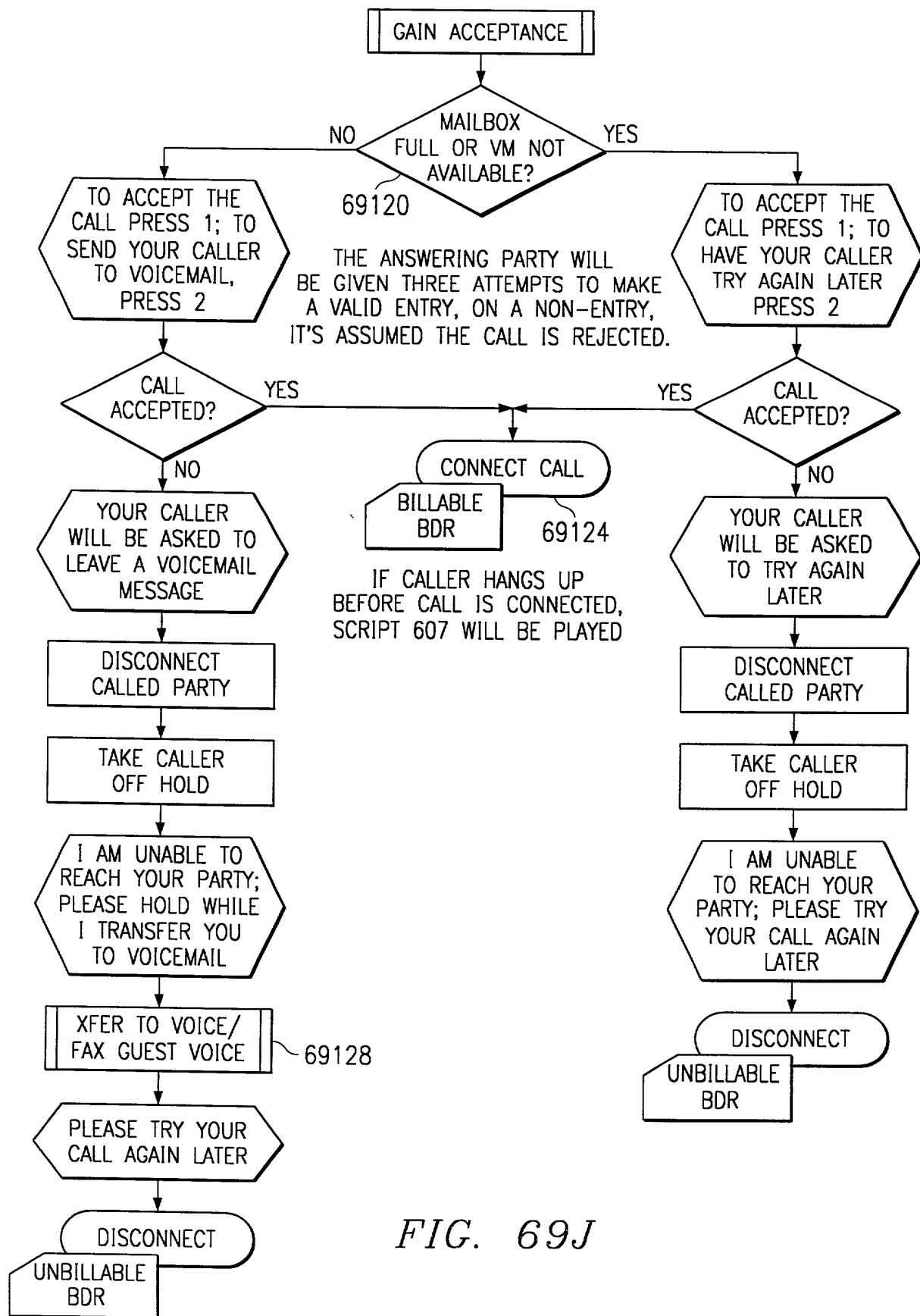


FIG. 69J

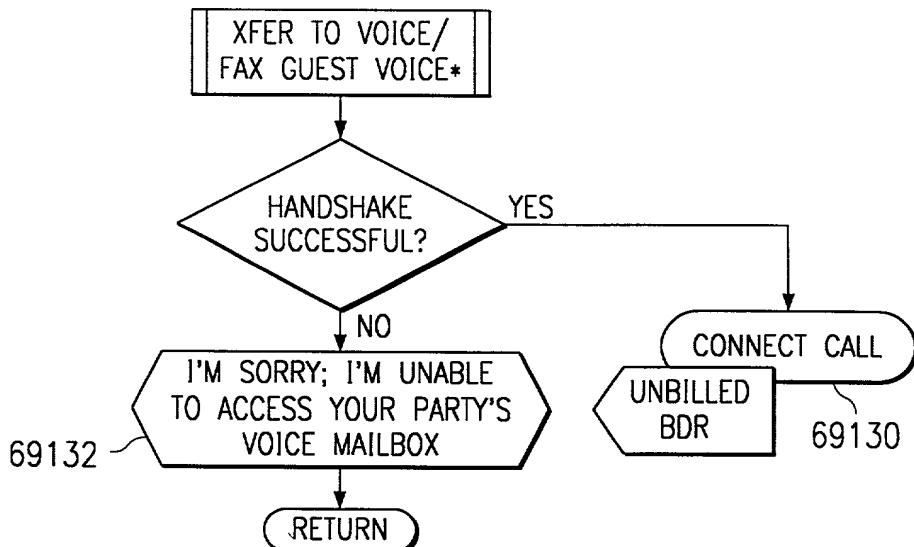


FIG. 69K

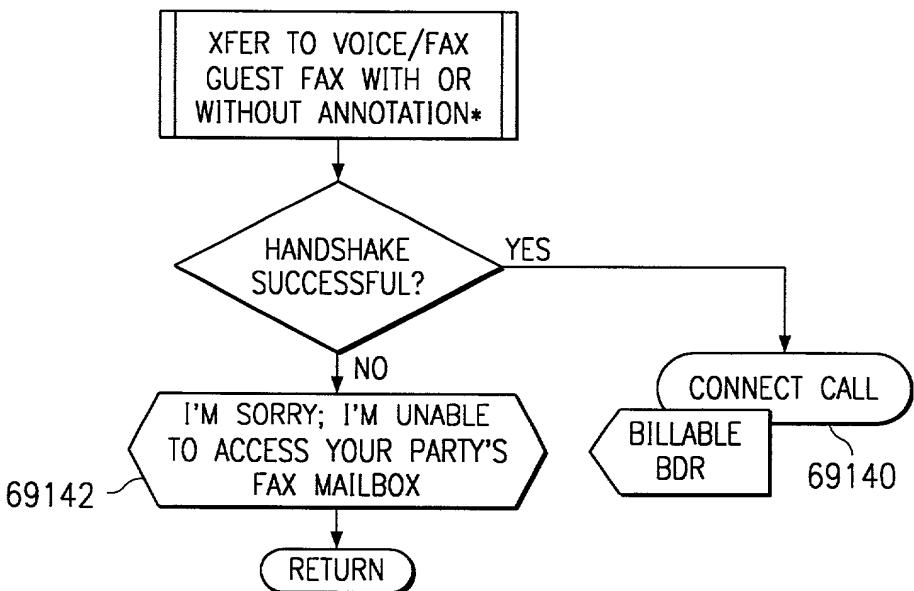


FIG. 69L

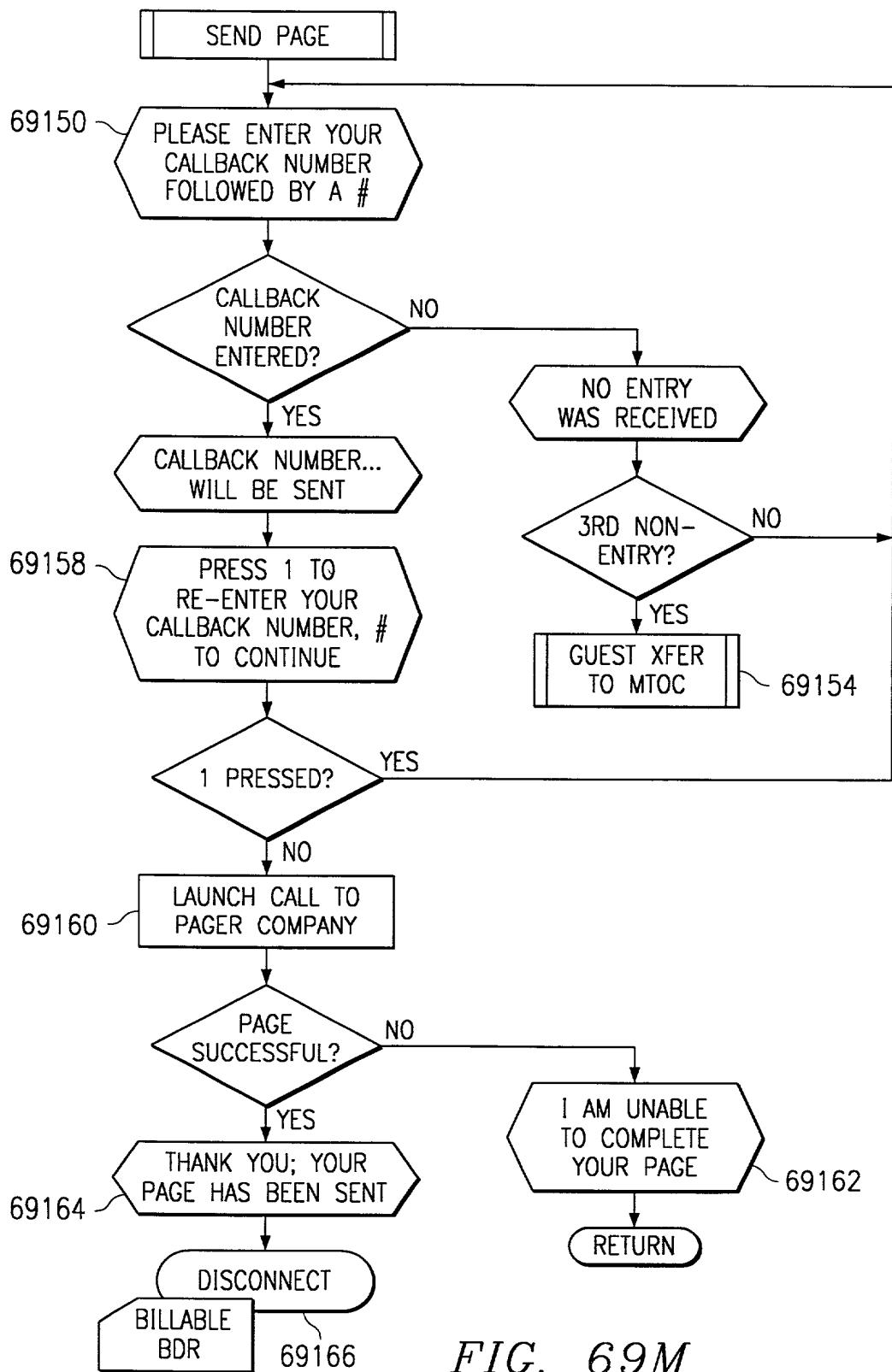


FIG. 69M

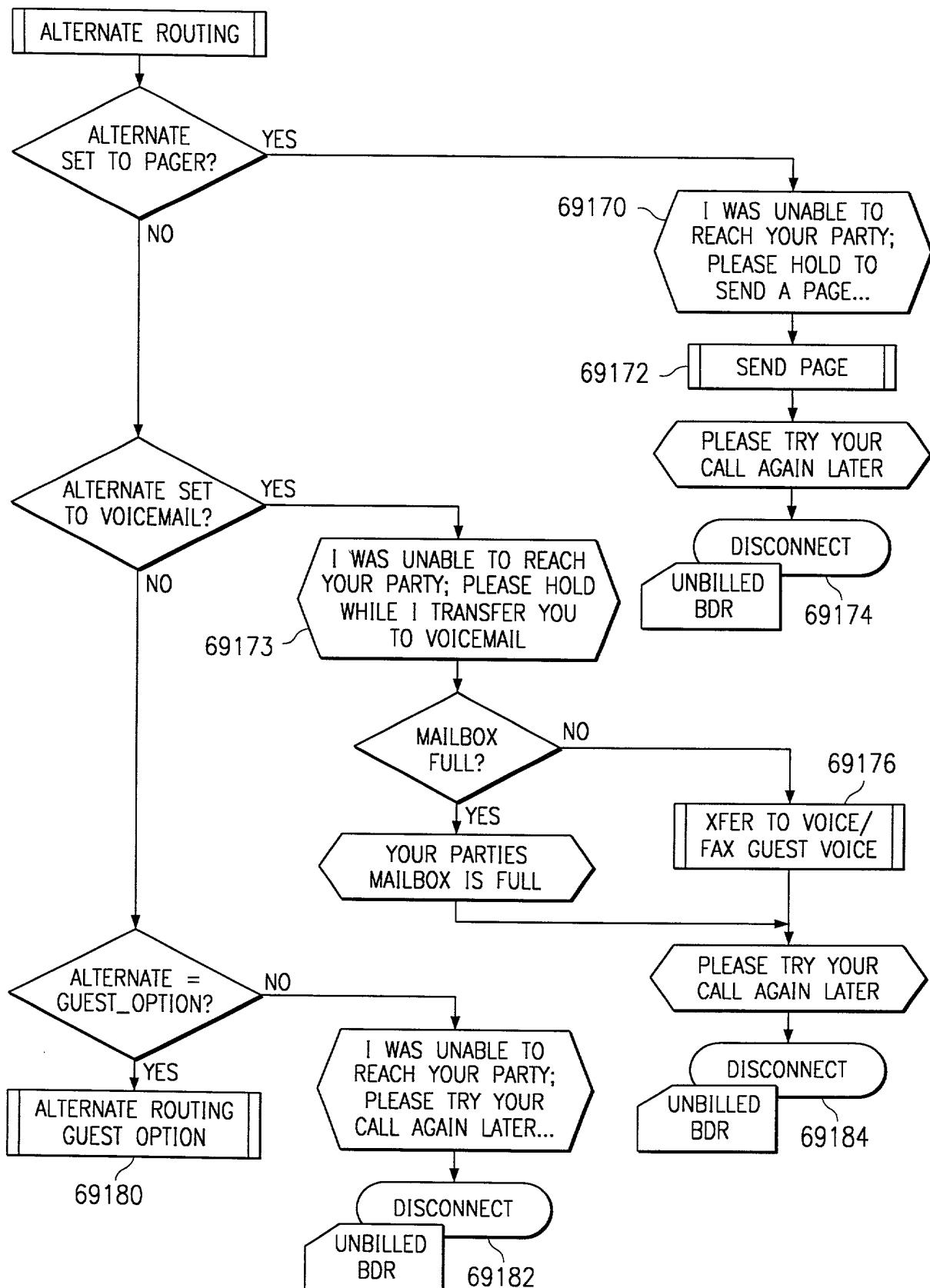


FIG. 69N

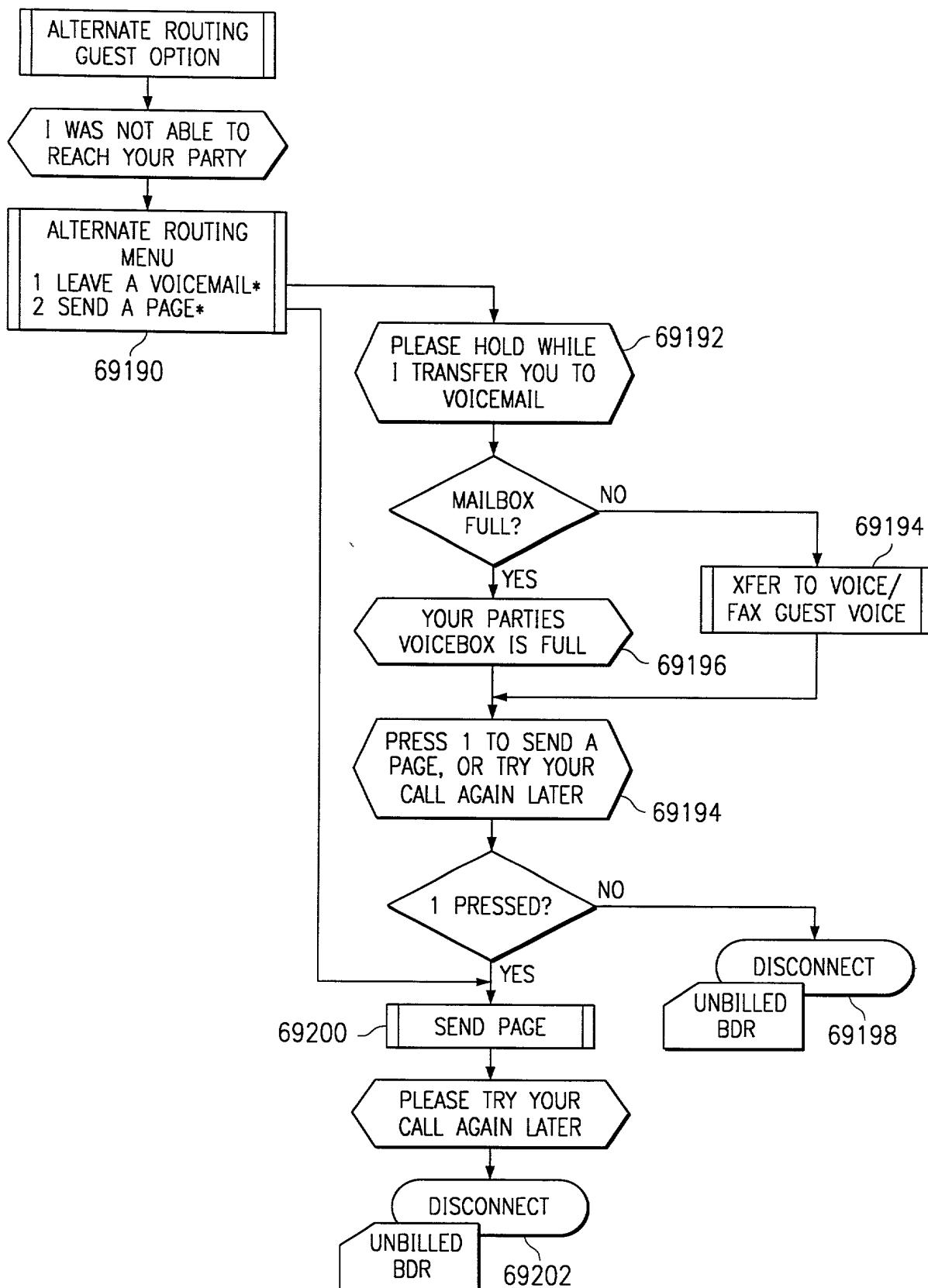


FIG. 690

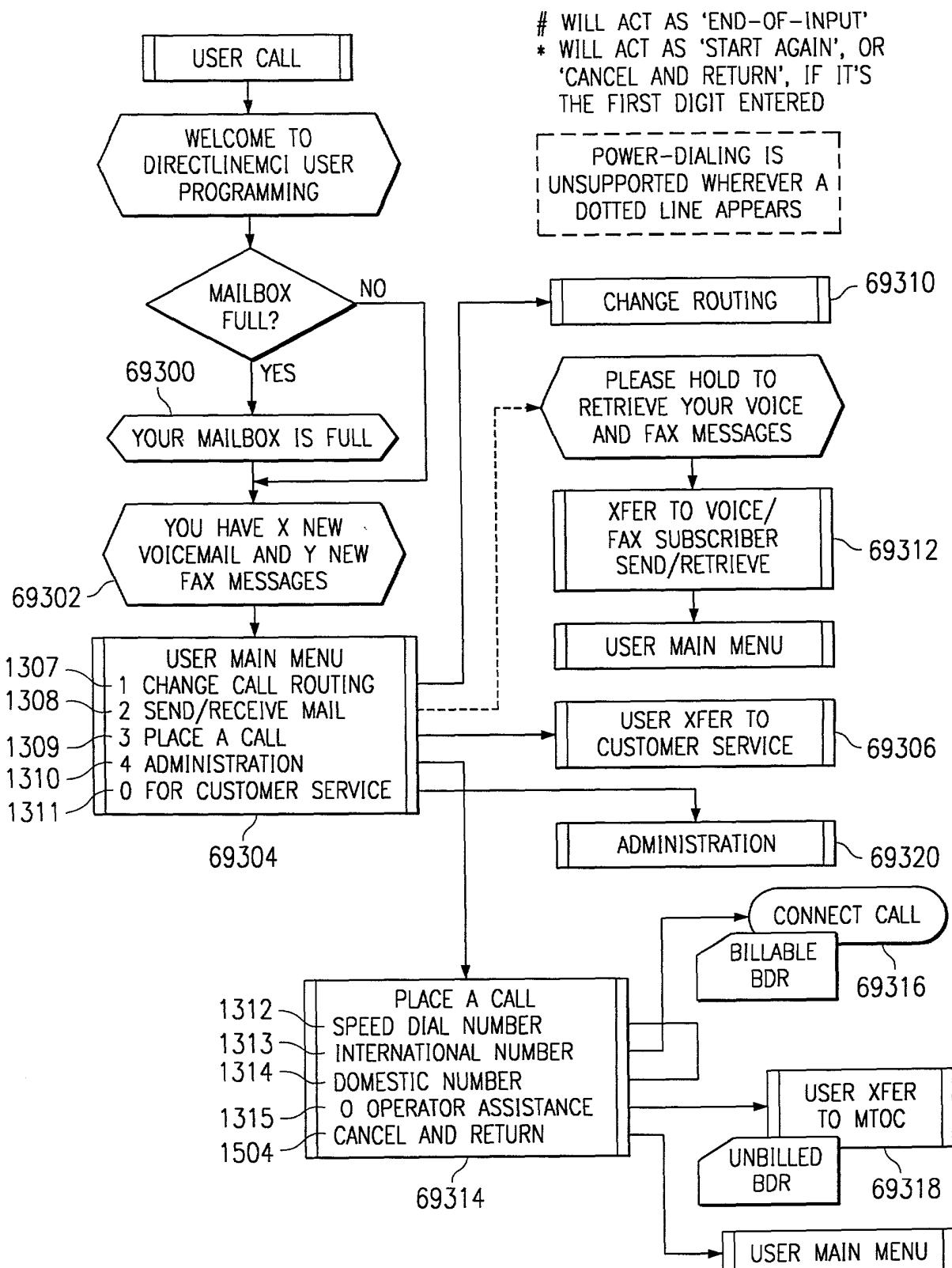


FIG. 69P

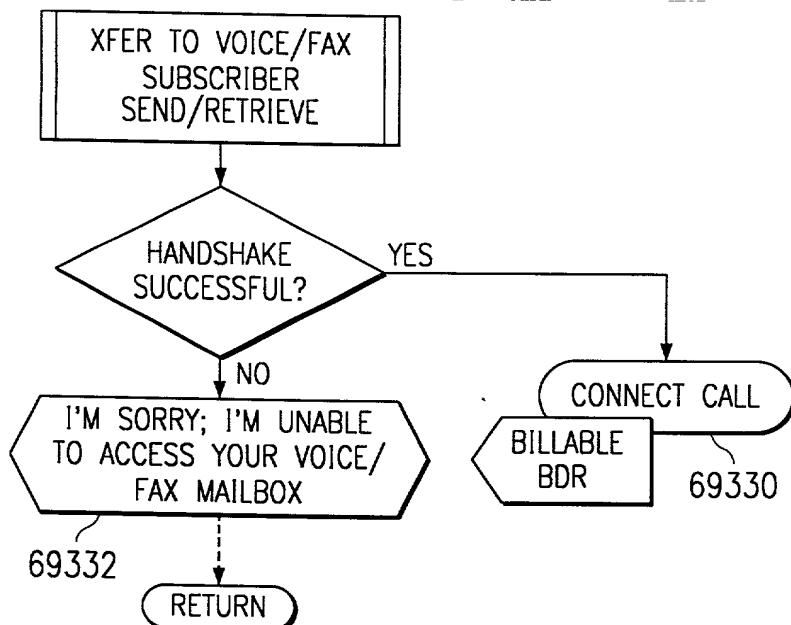


FIG. 69Q

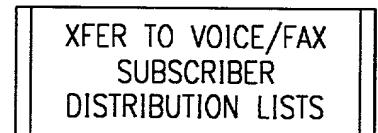


FIG. 69R

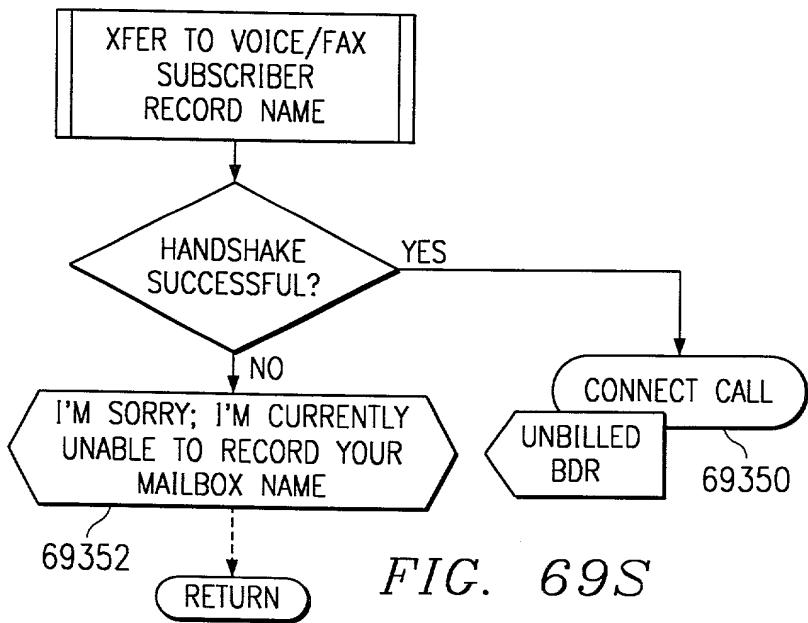
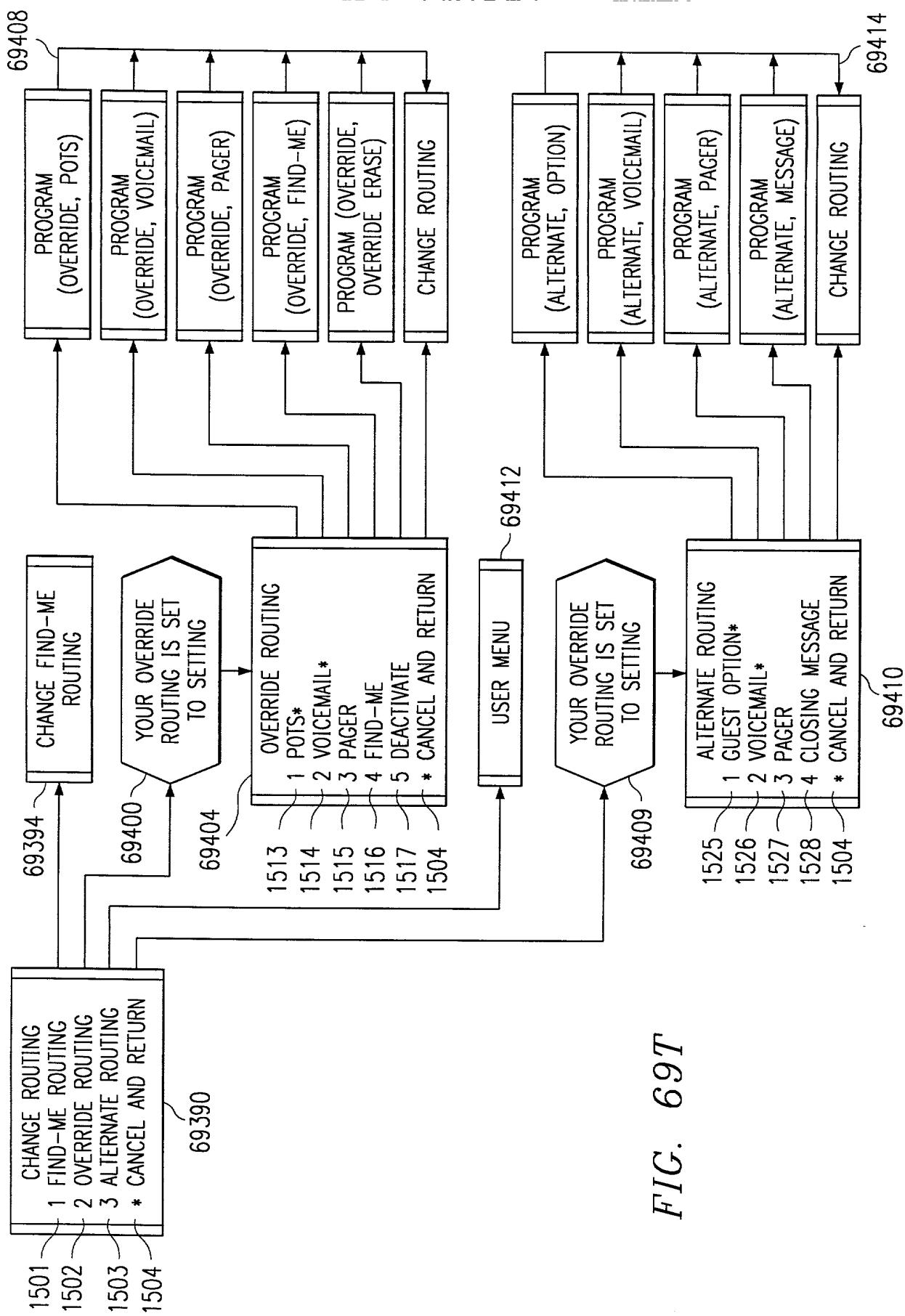
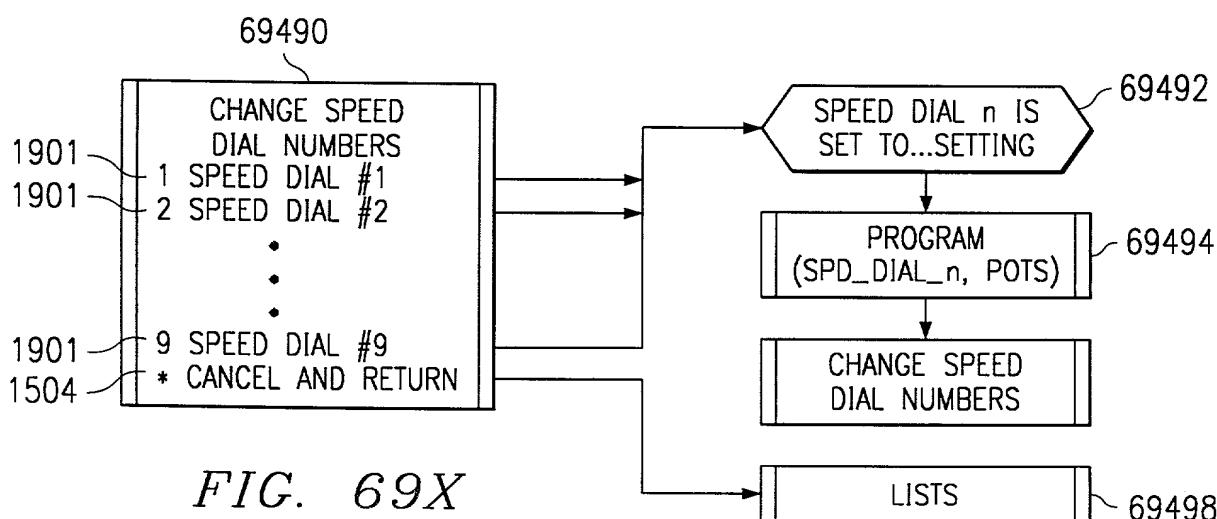
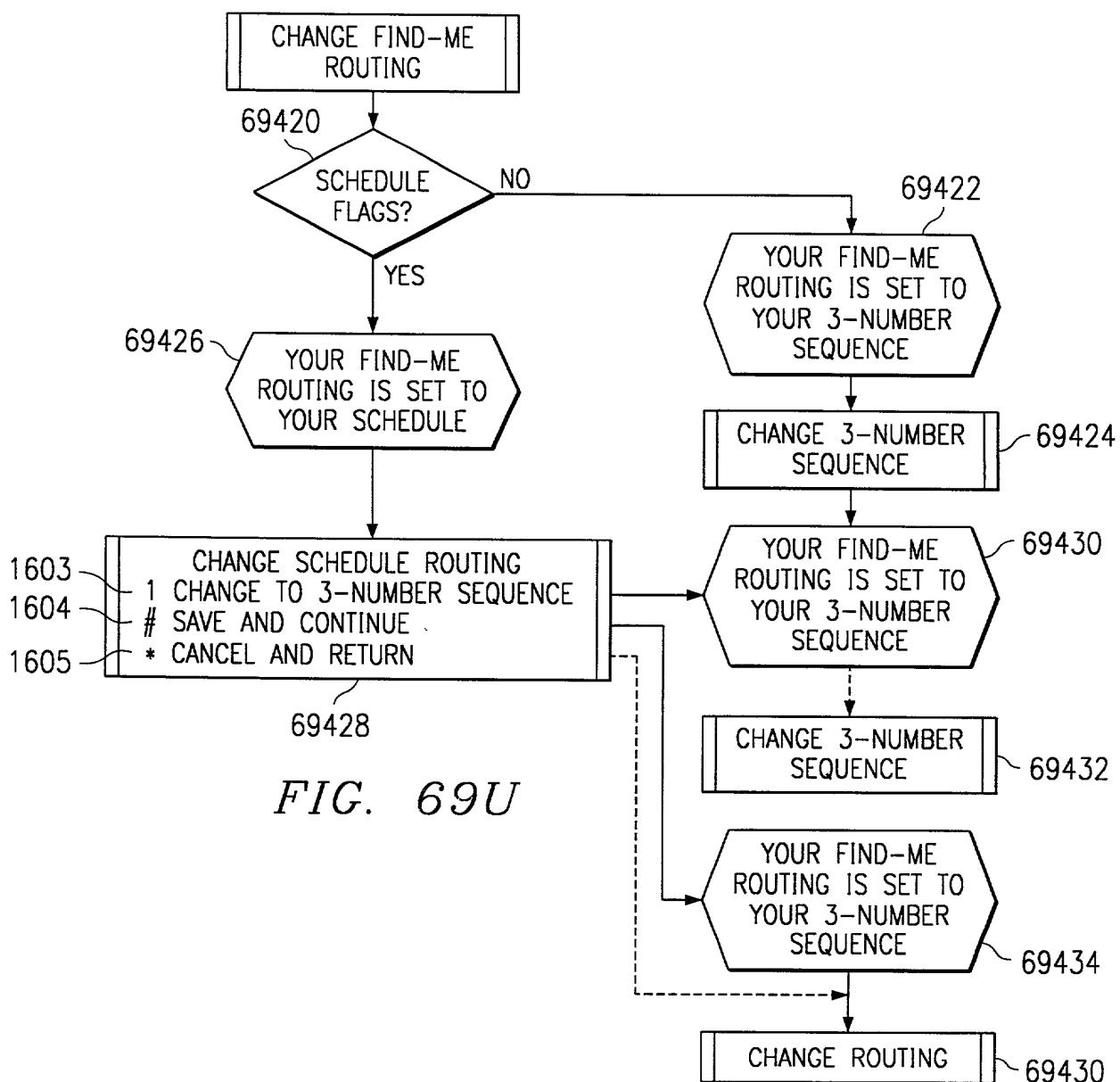


FIG. 69S





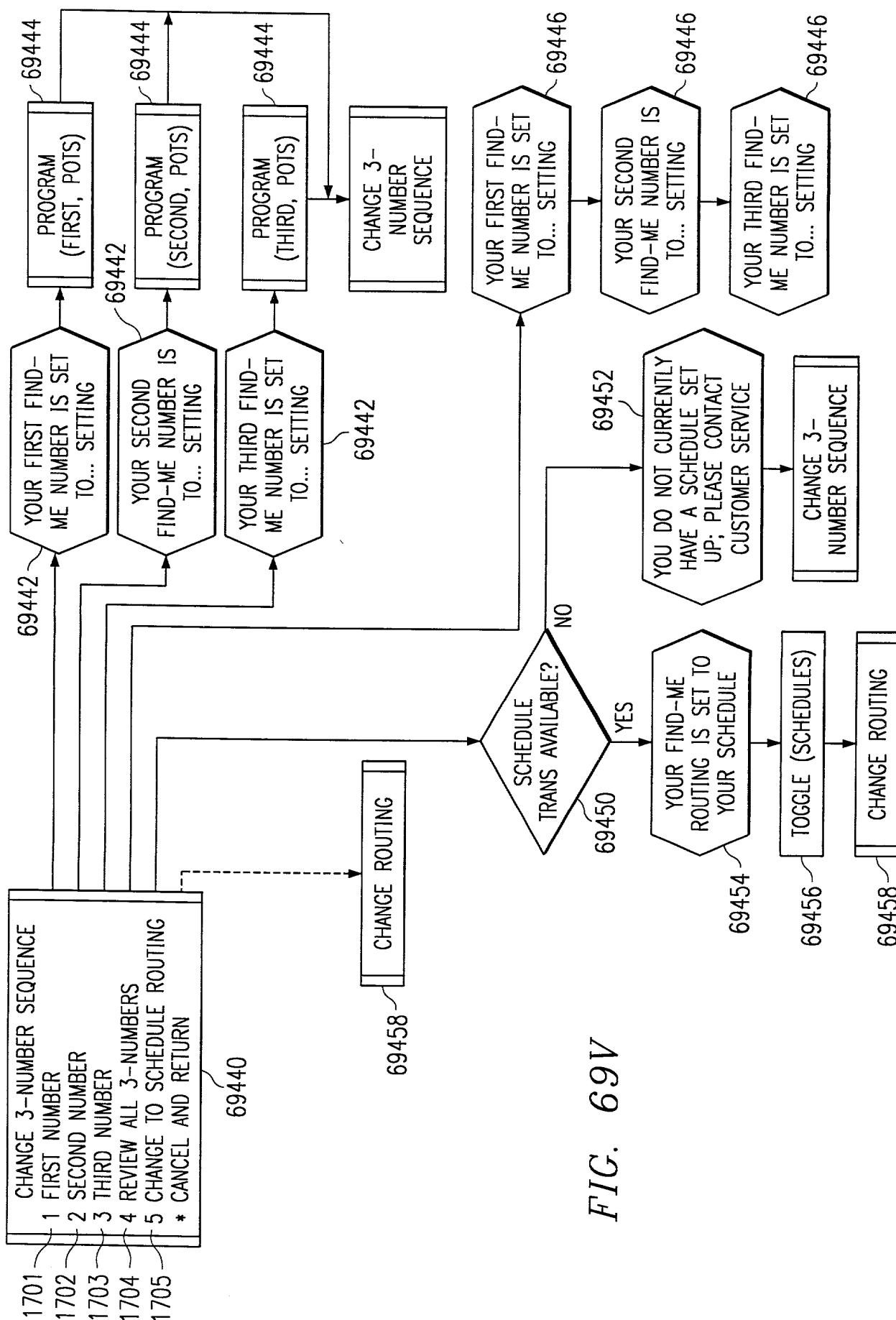


FIG. 69V

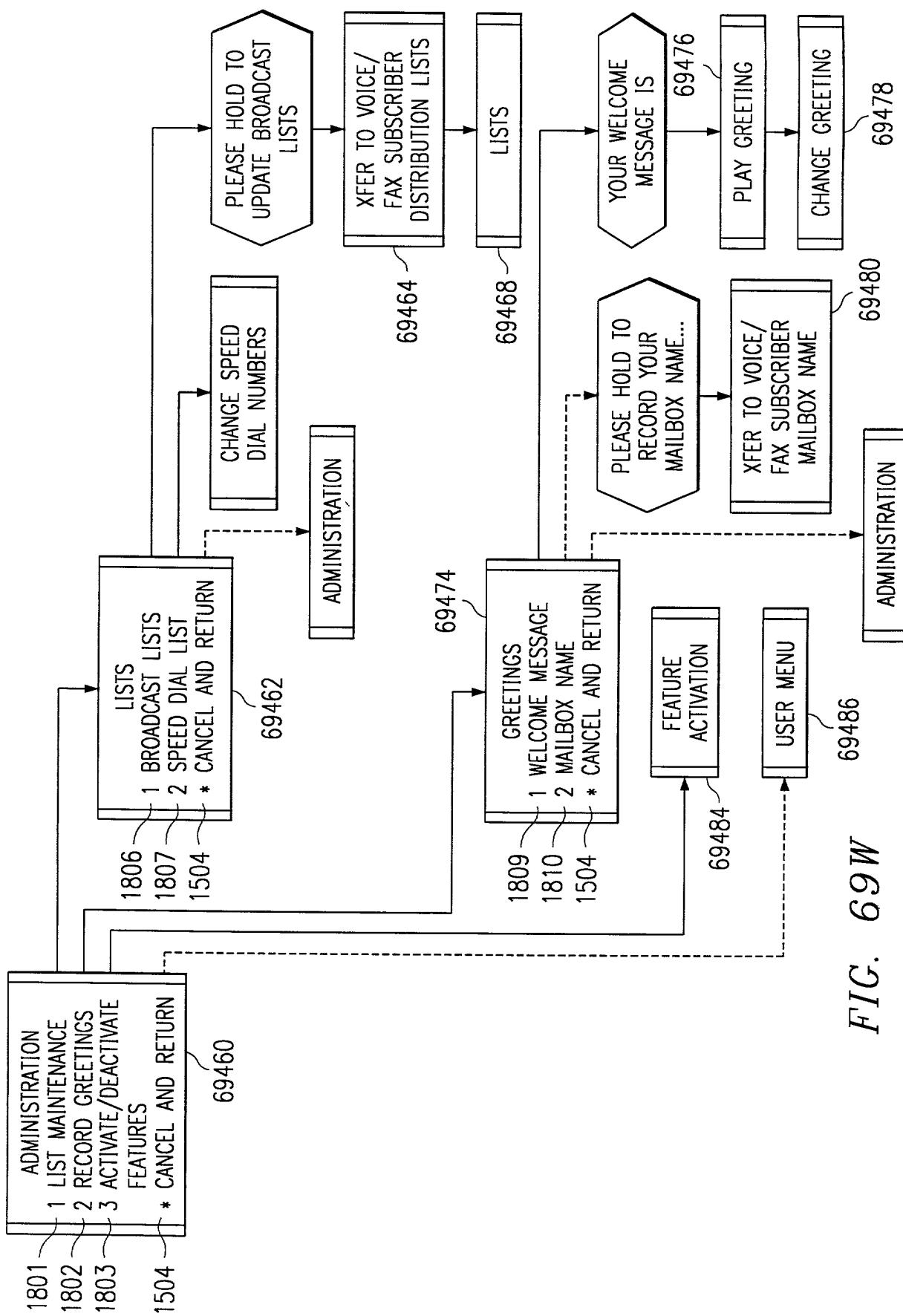
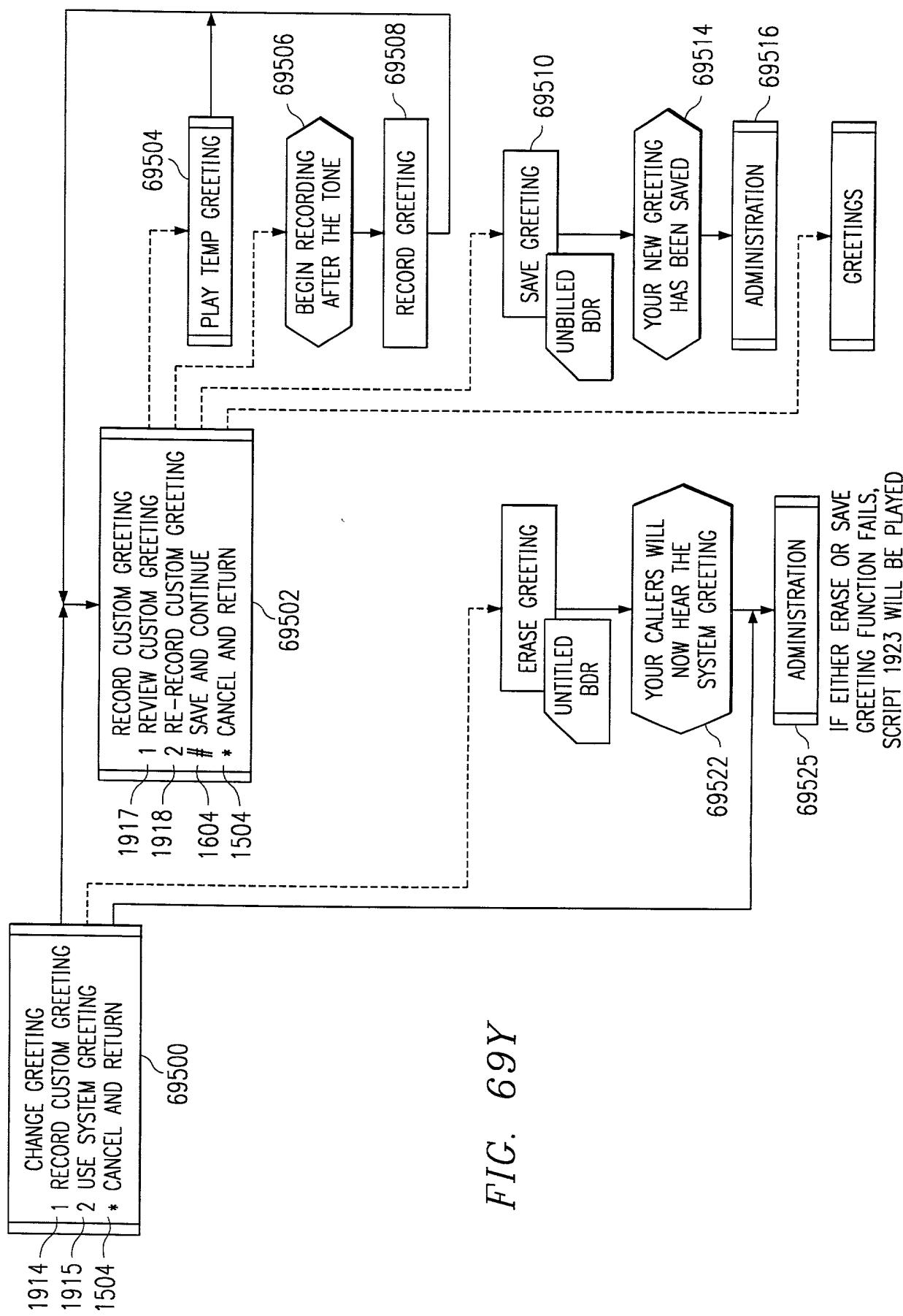


FIG. 69W



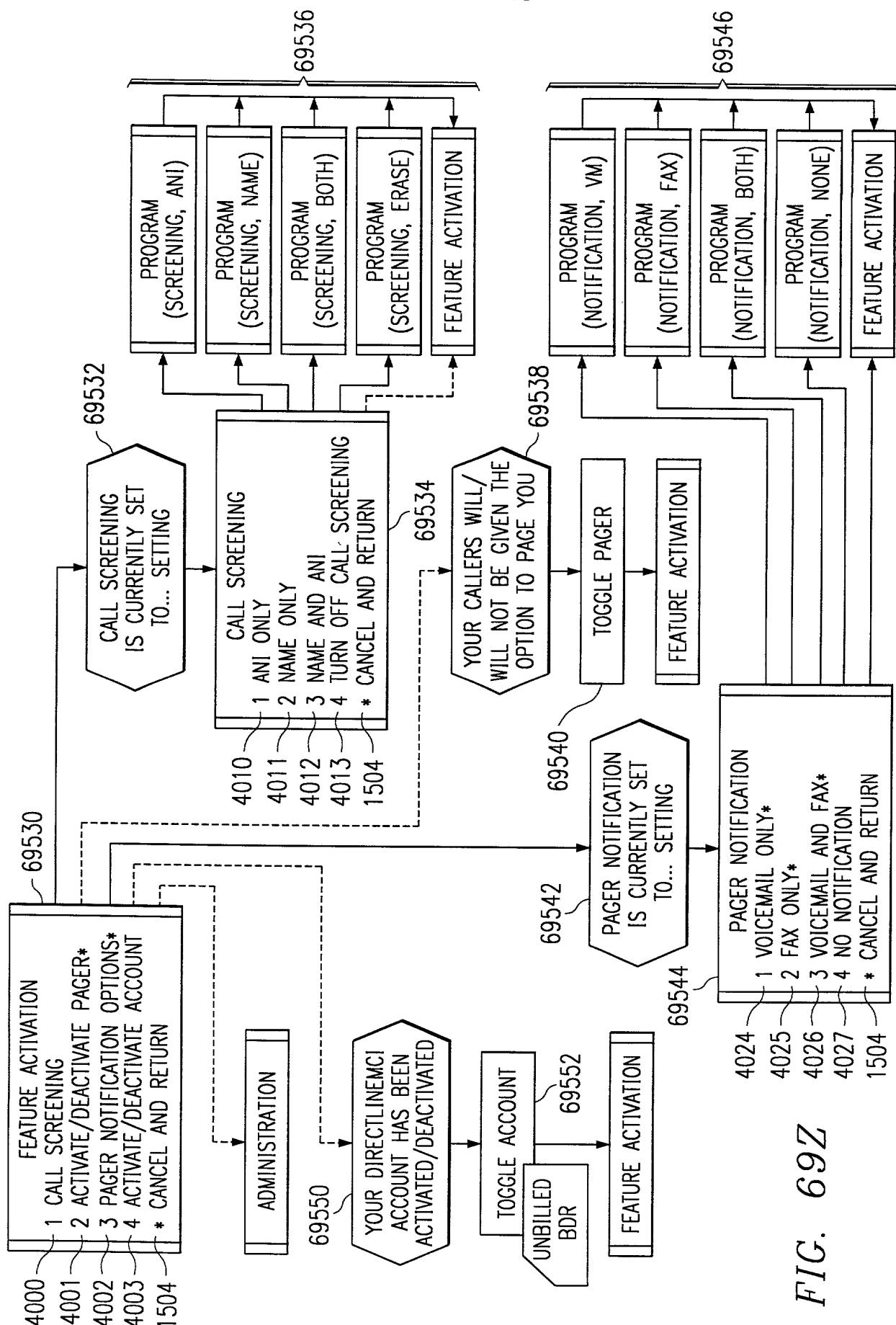
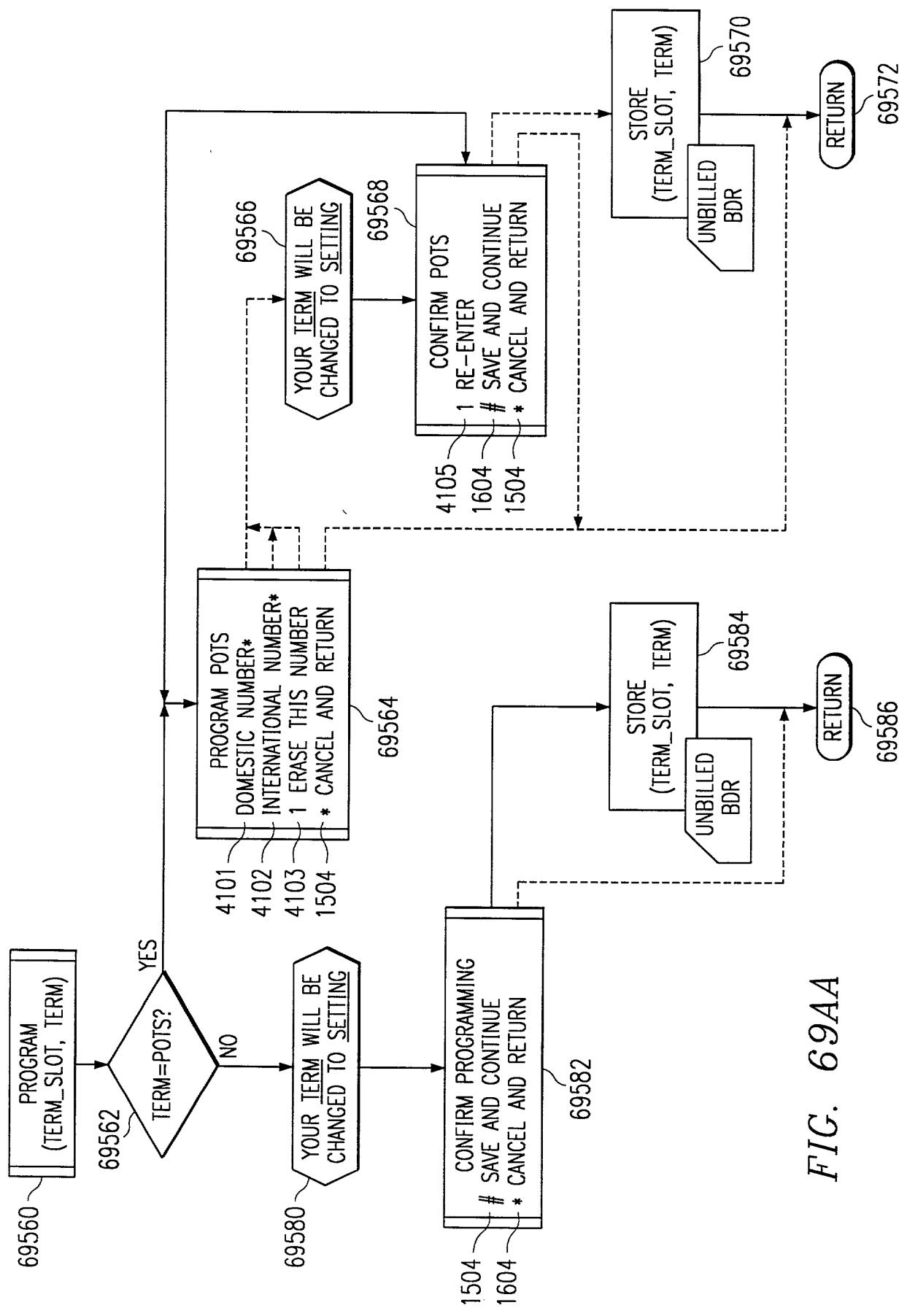


FIG. 69Z



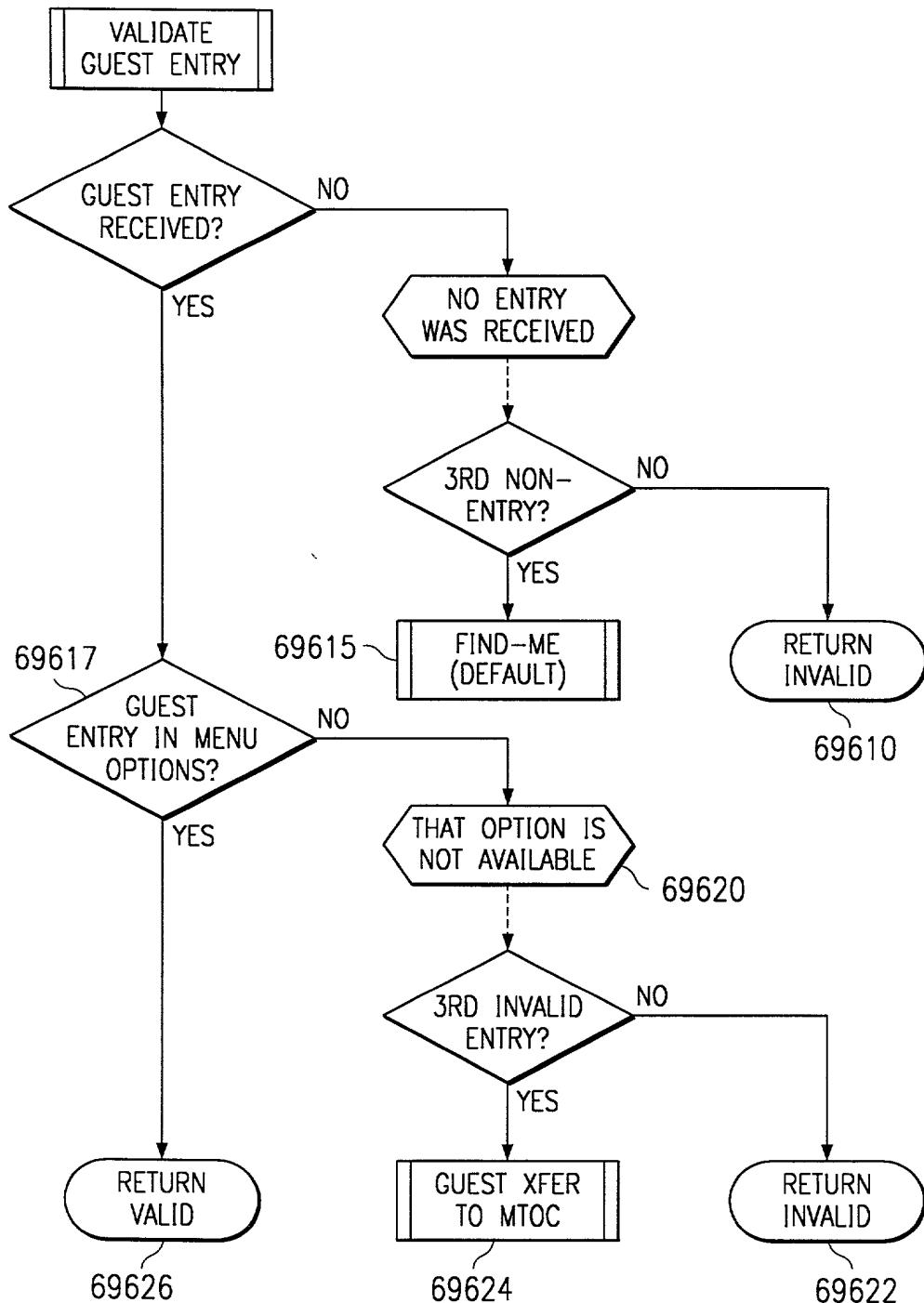


FIG. 69AB

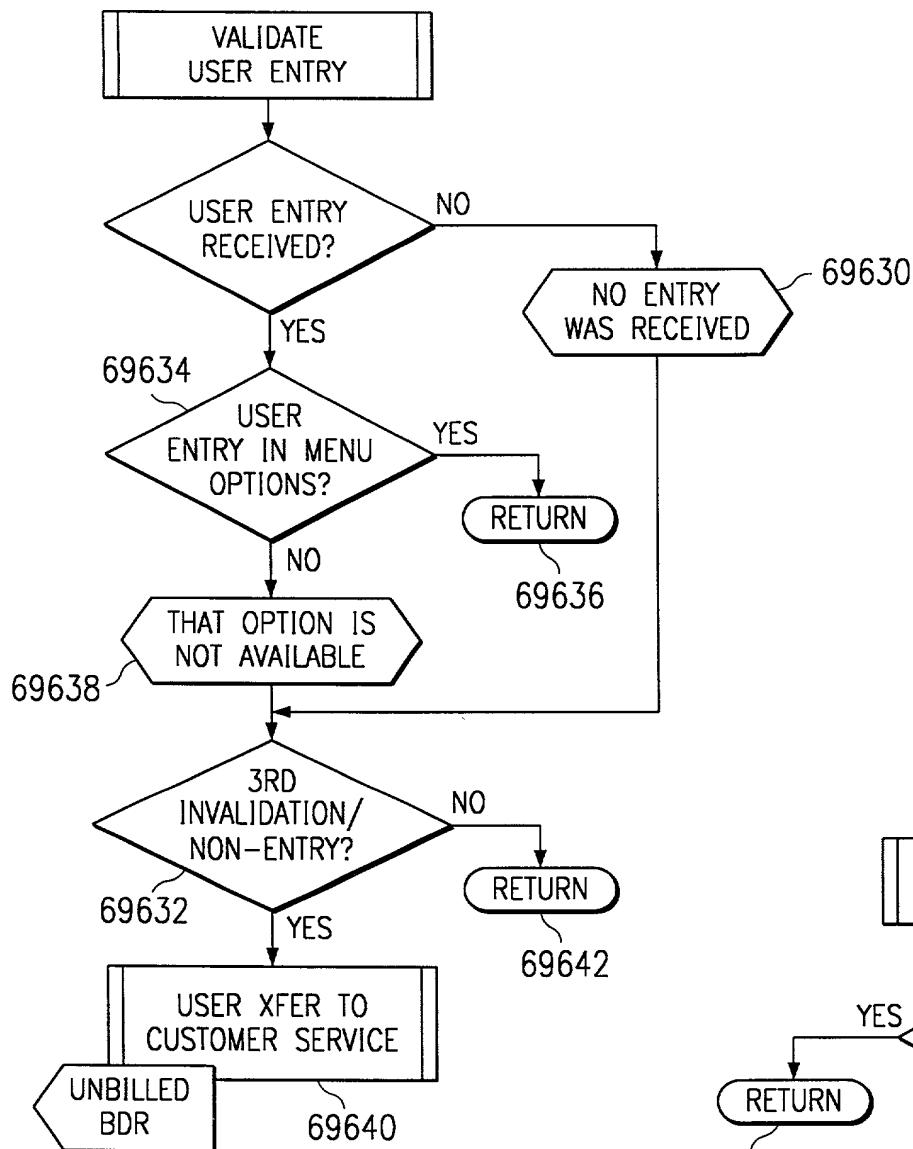


FIG. 69AC

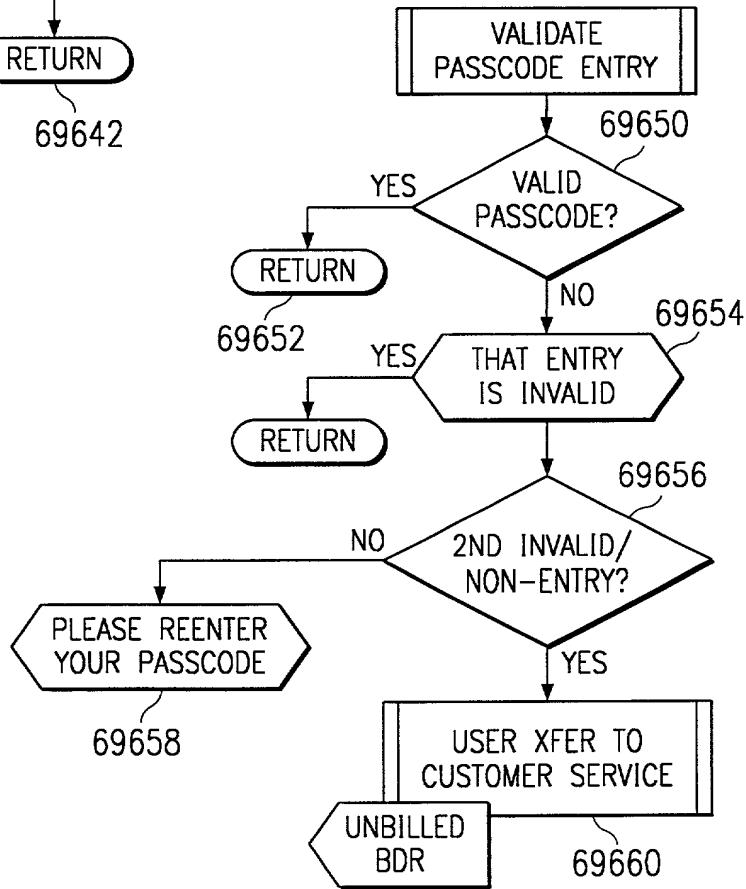


FIG. 69AD

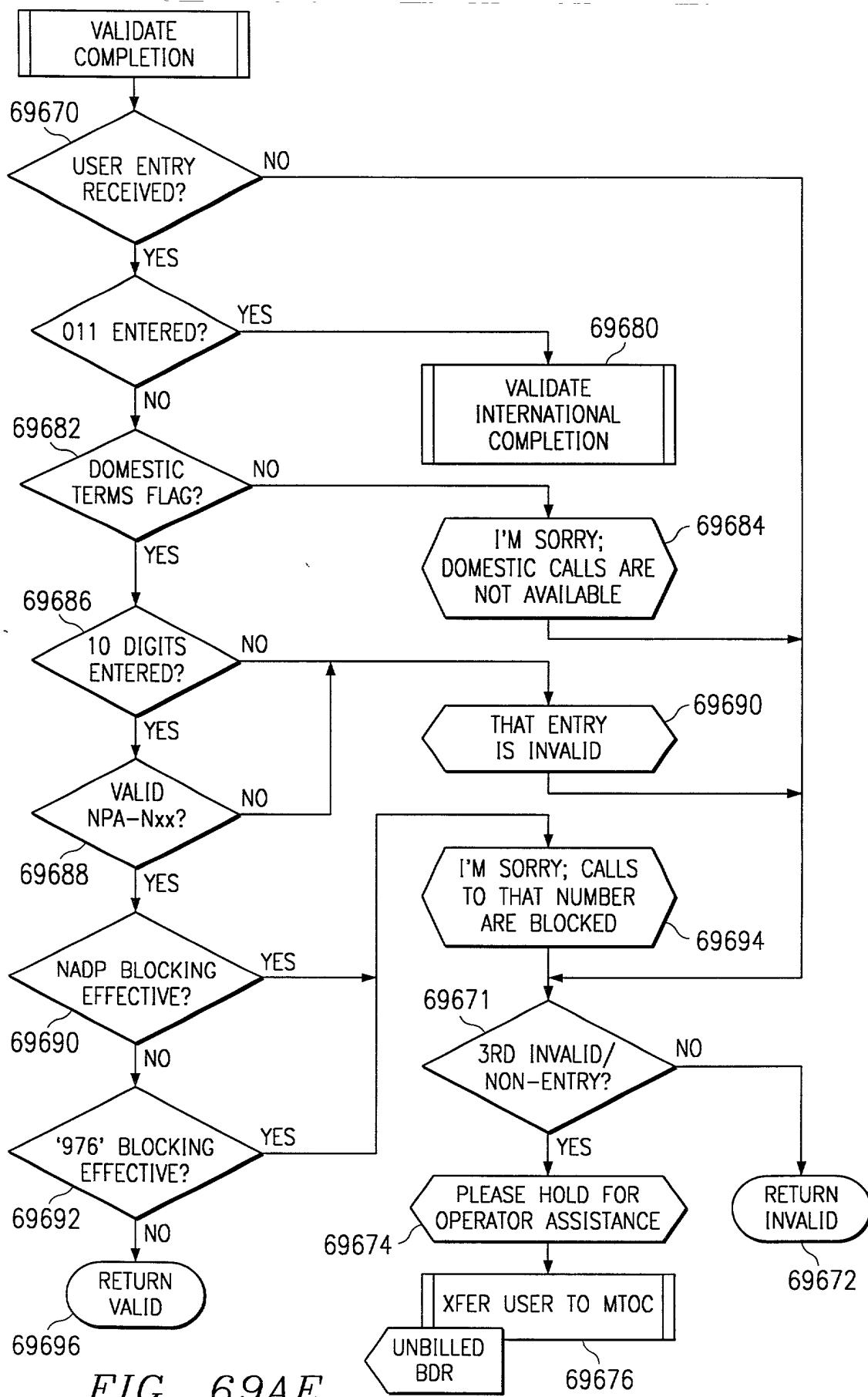


FIG. 69AE

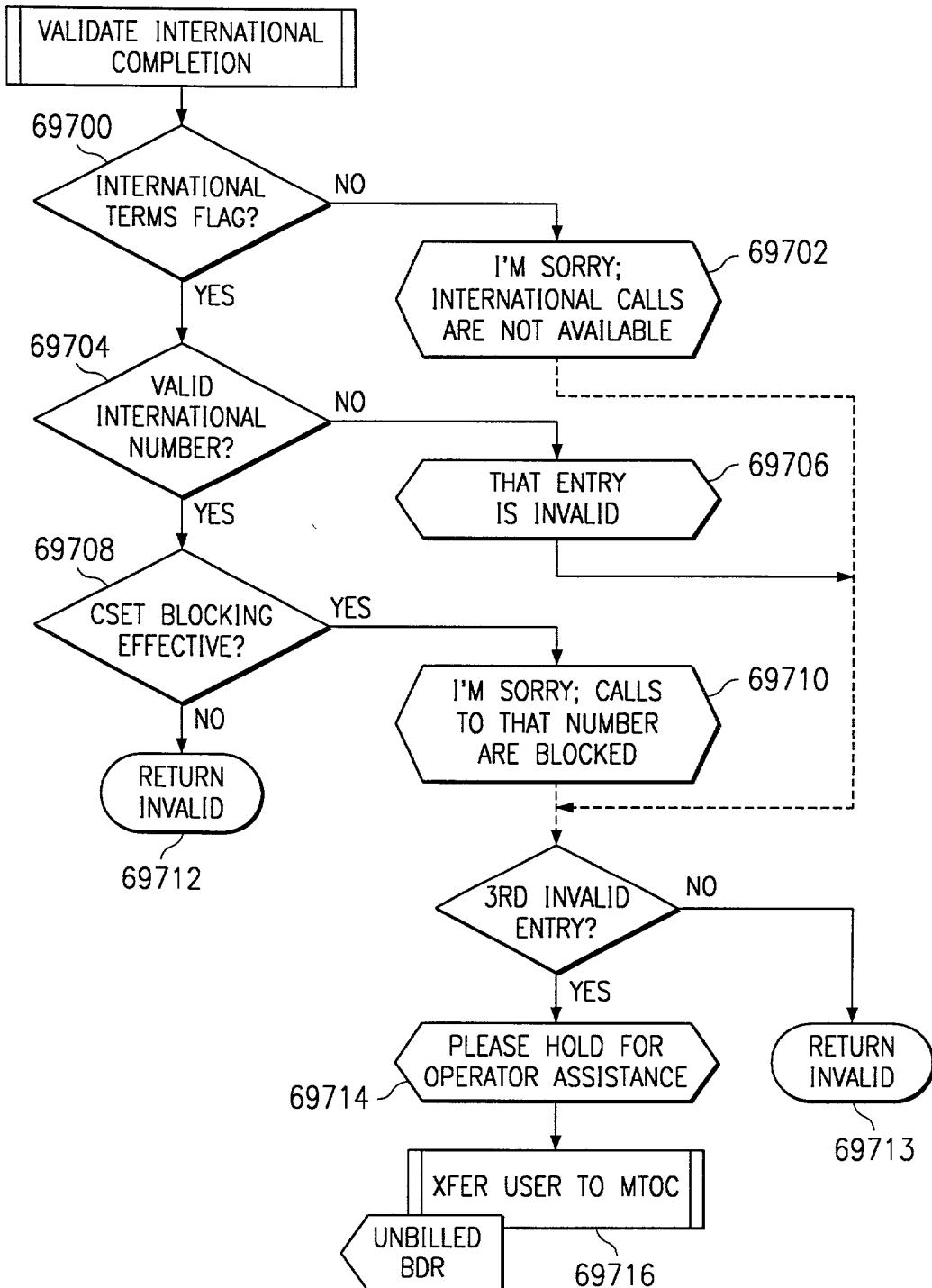
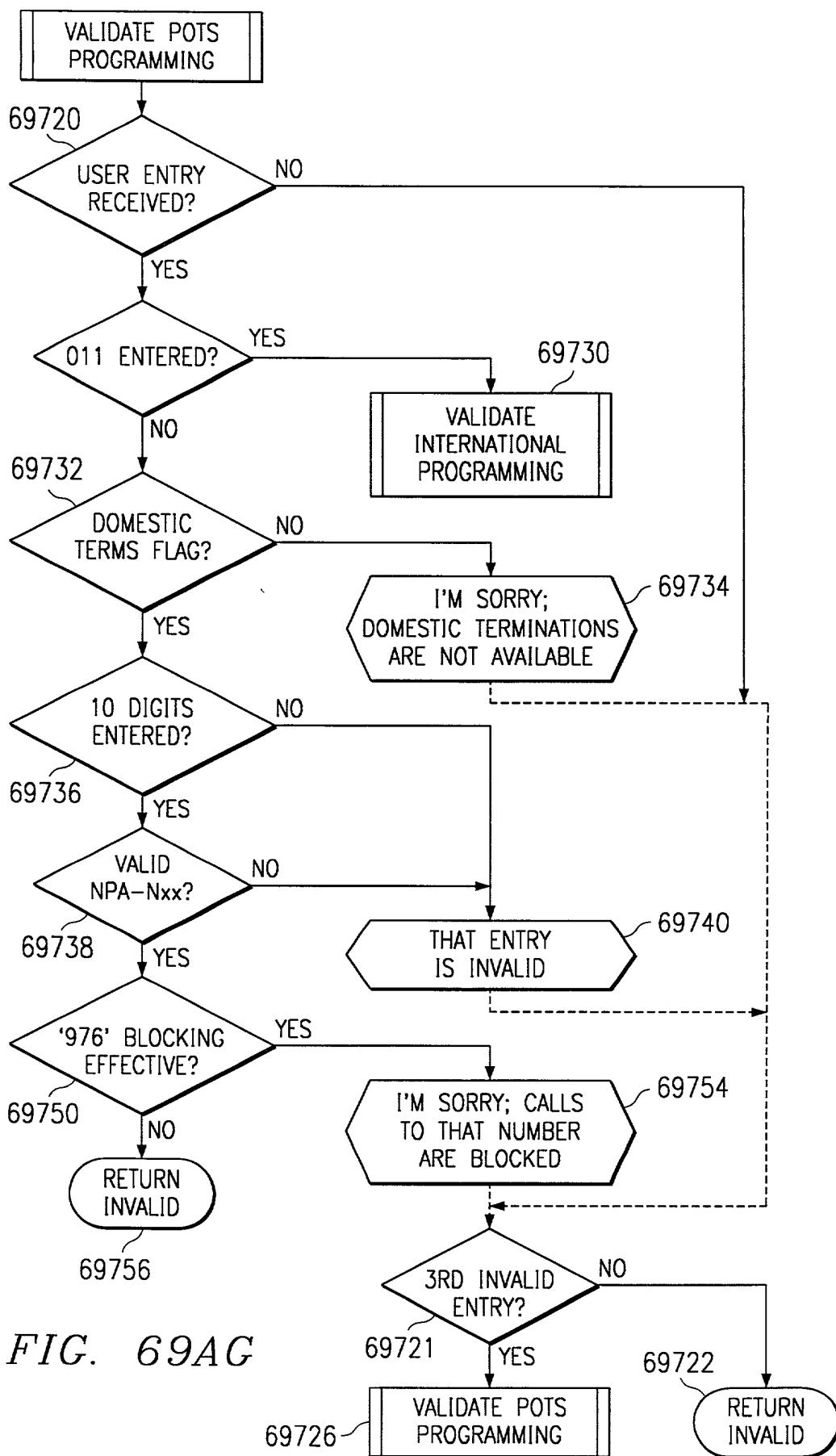


FIG. 69AF



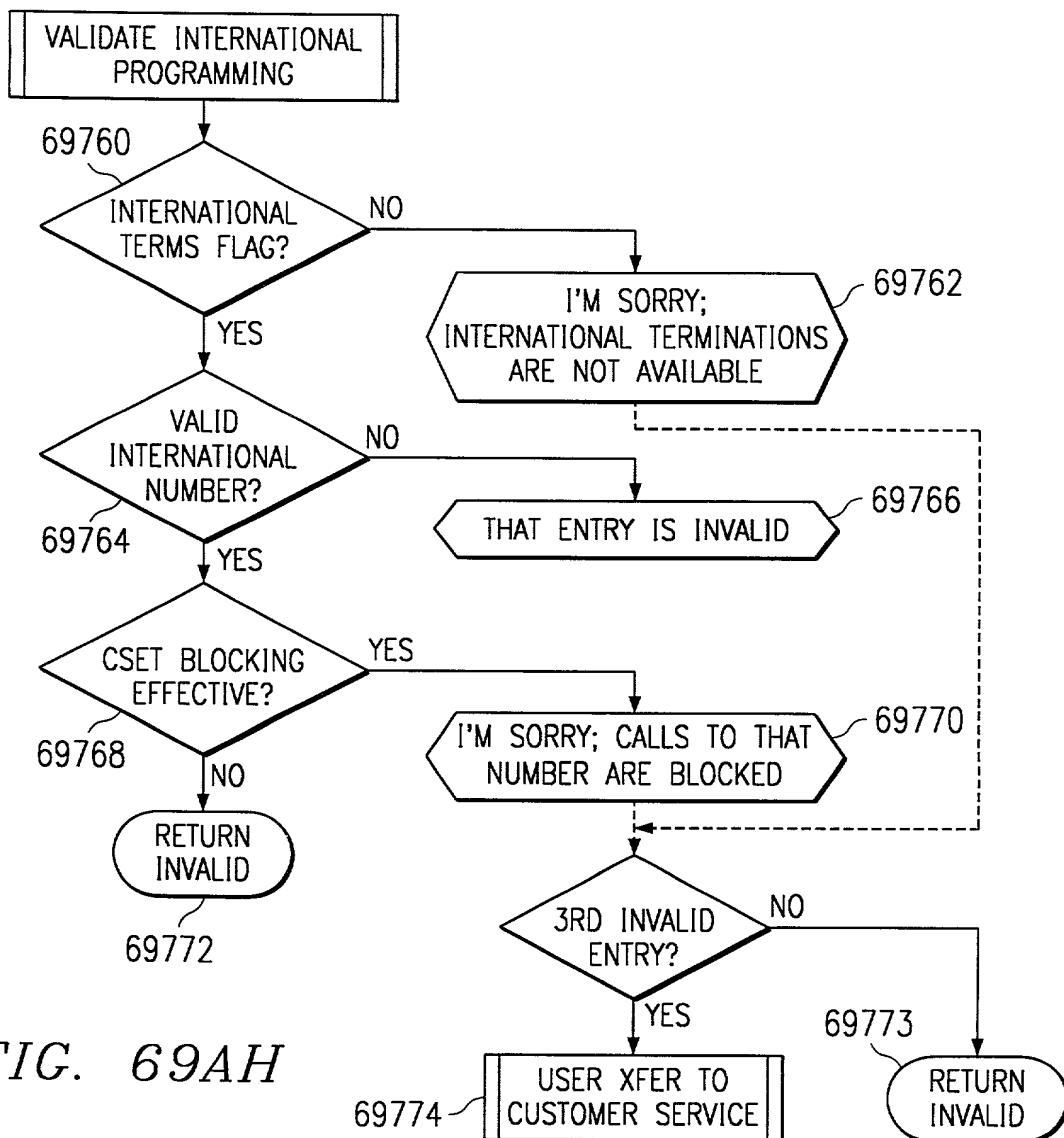


FIG. 69AH

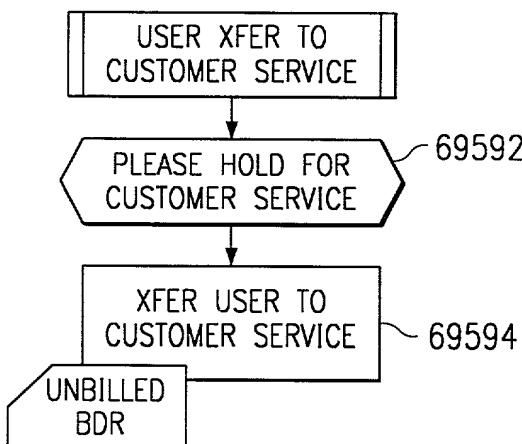
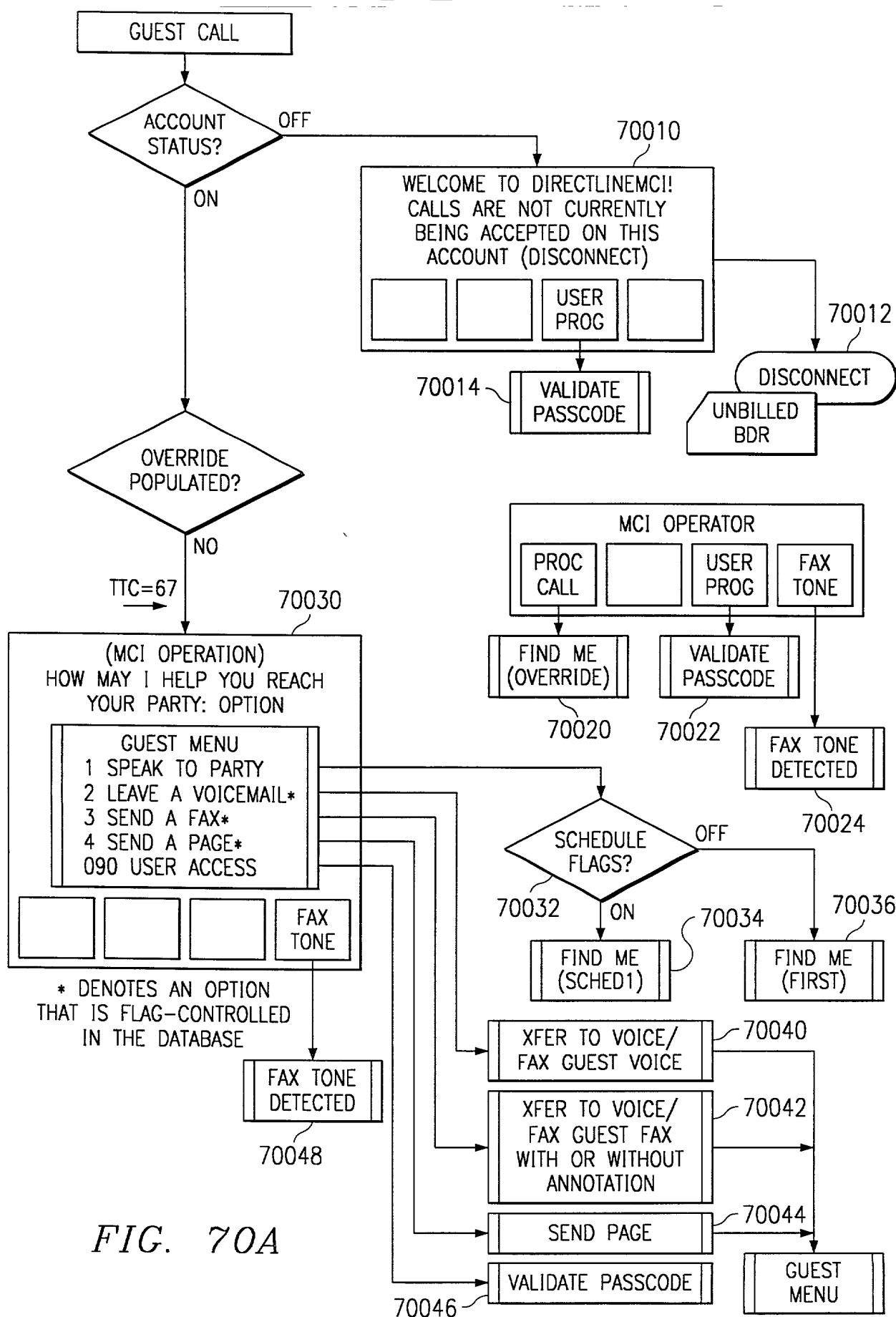


FIG. 69AI



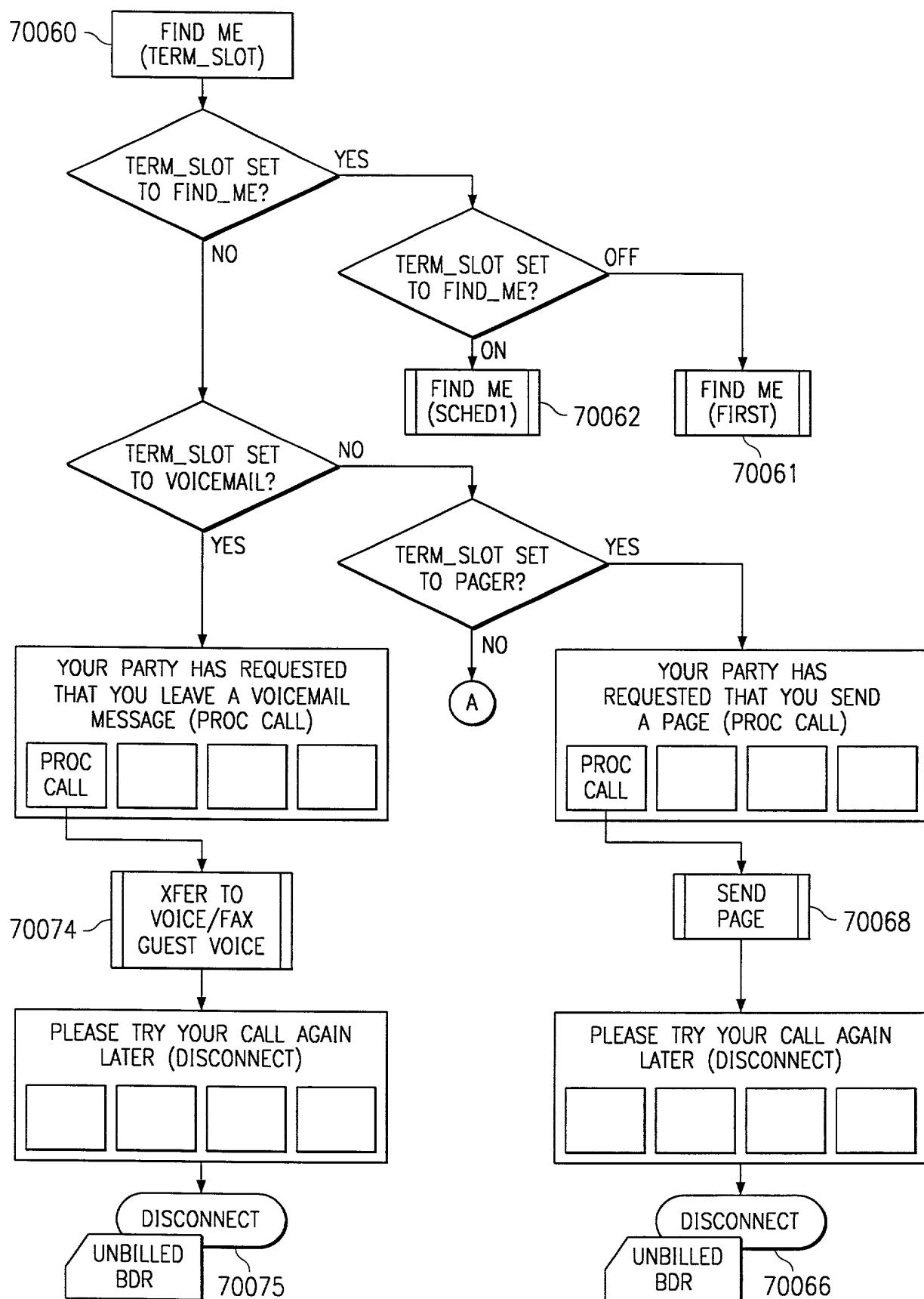
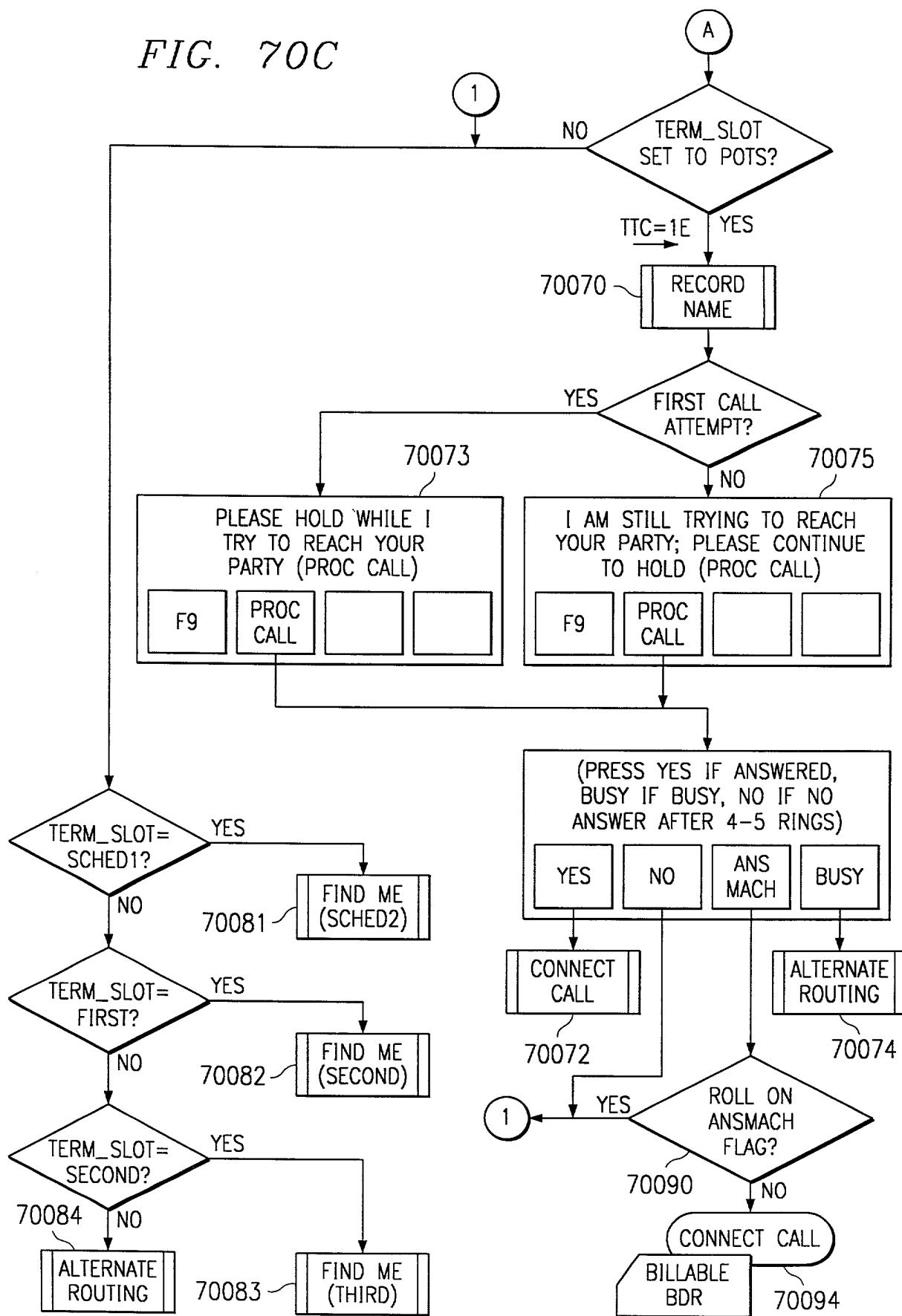
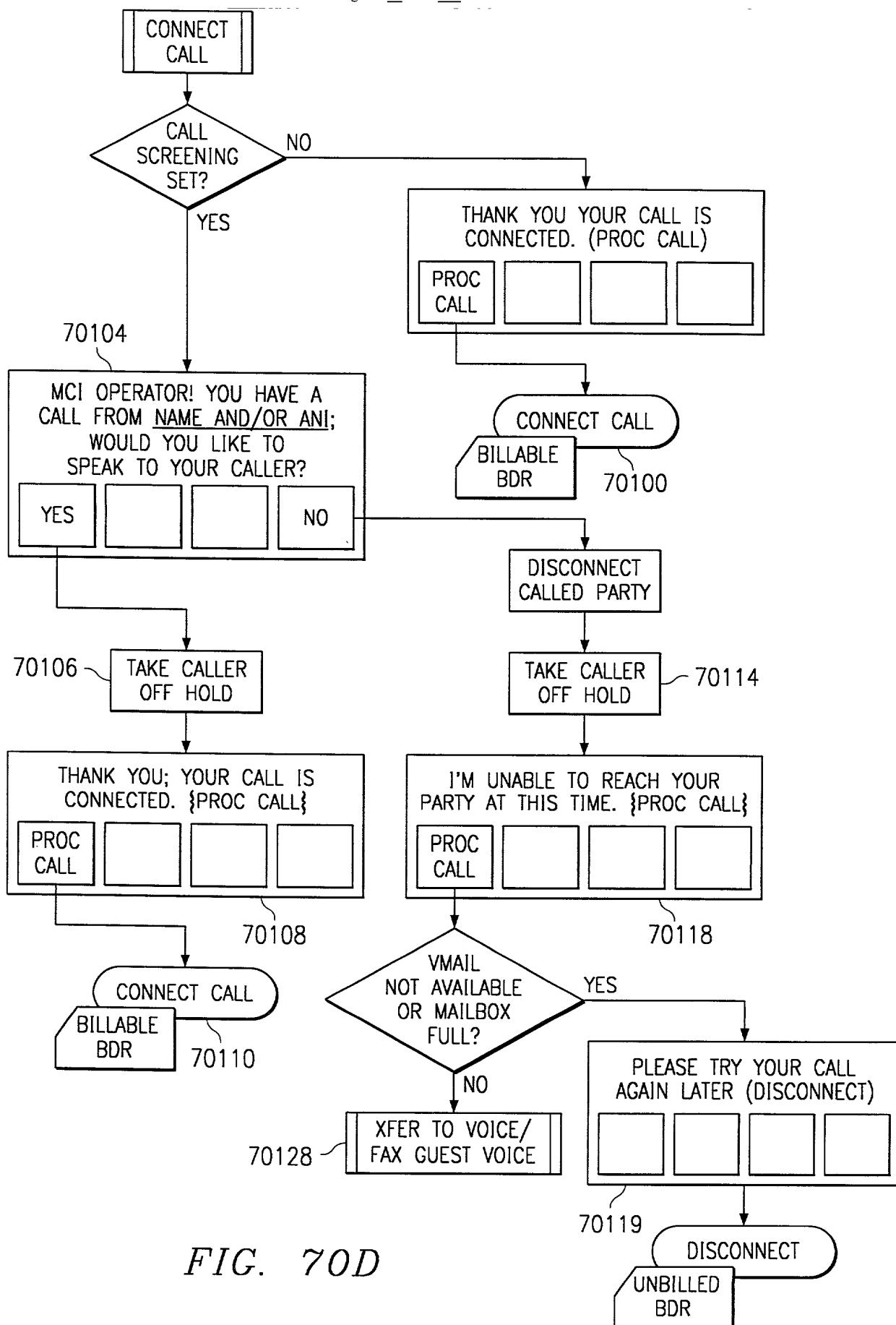


FIG. 70B

FIG. 70C





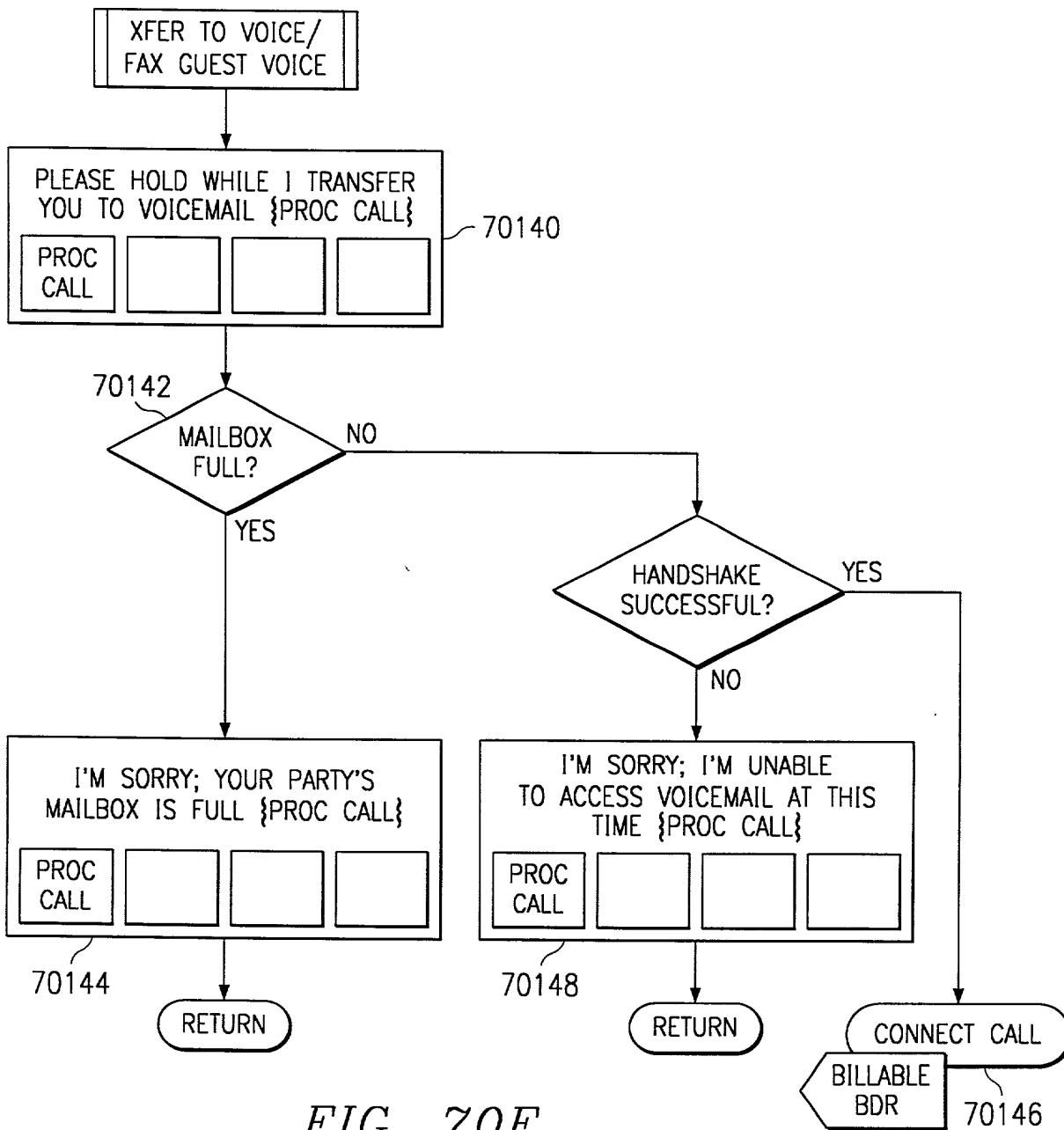


FIG. 70E

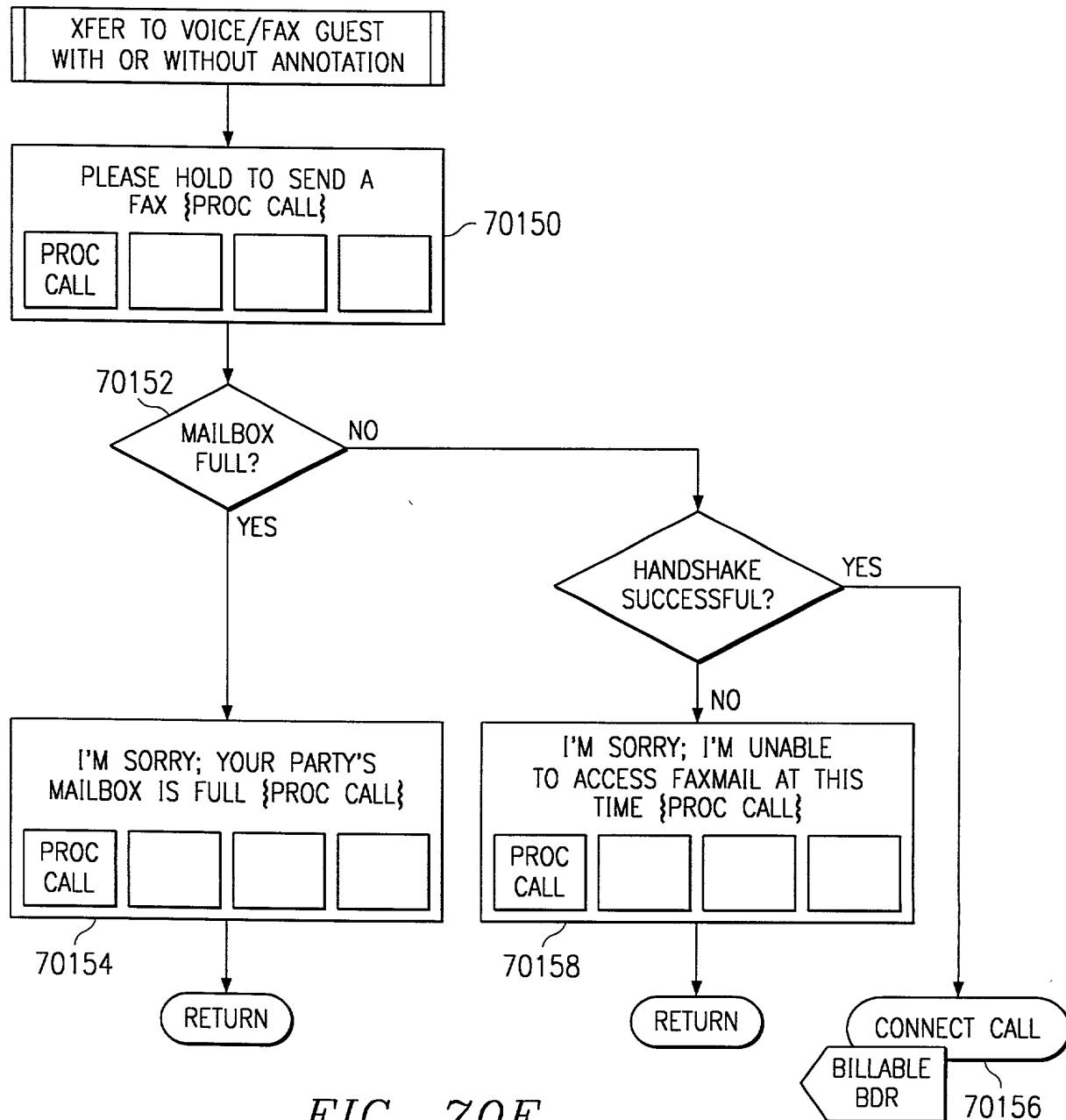


FIG. 70F

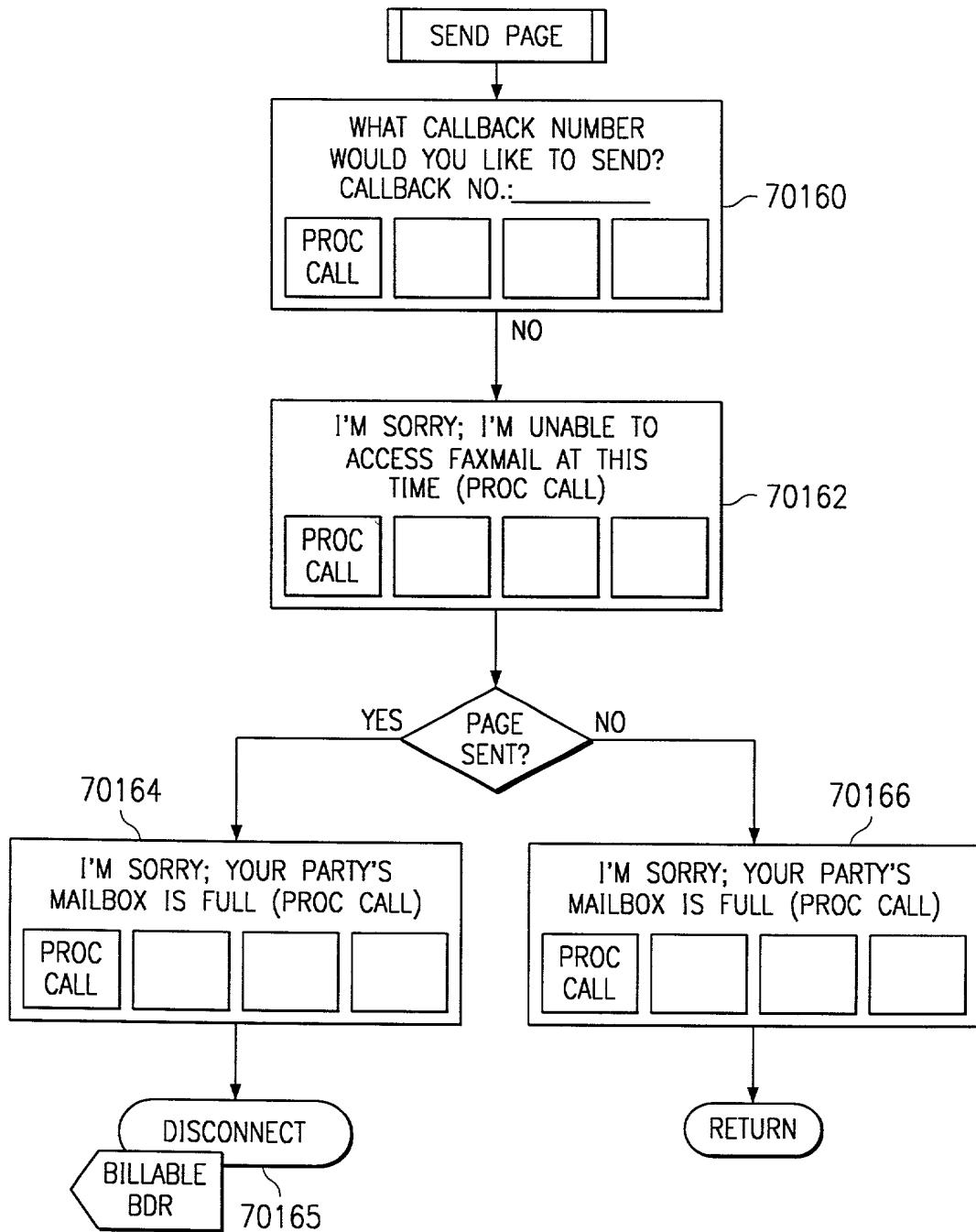


FIG. 70G

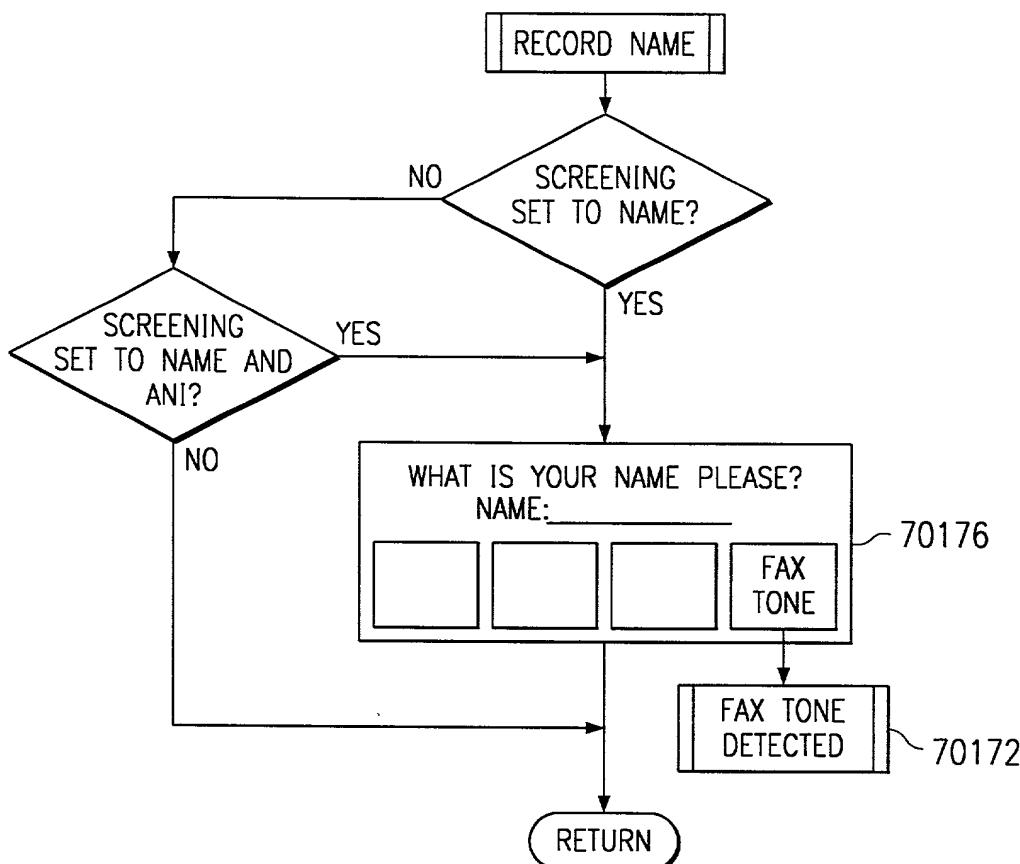


FIG. 70H

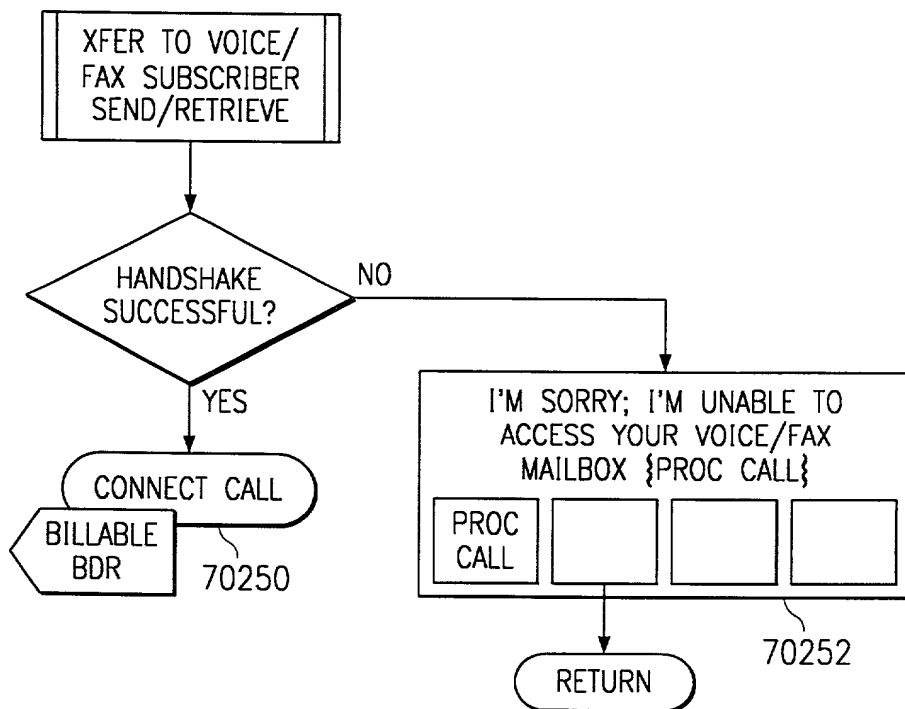


FIG. 70M

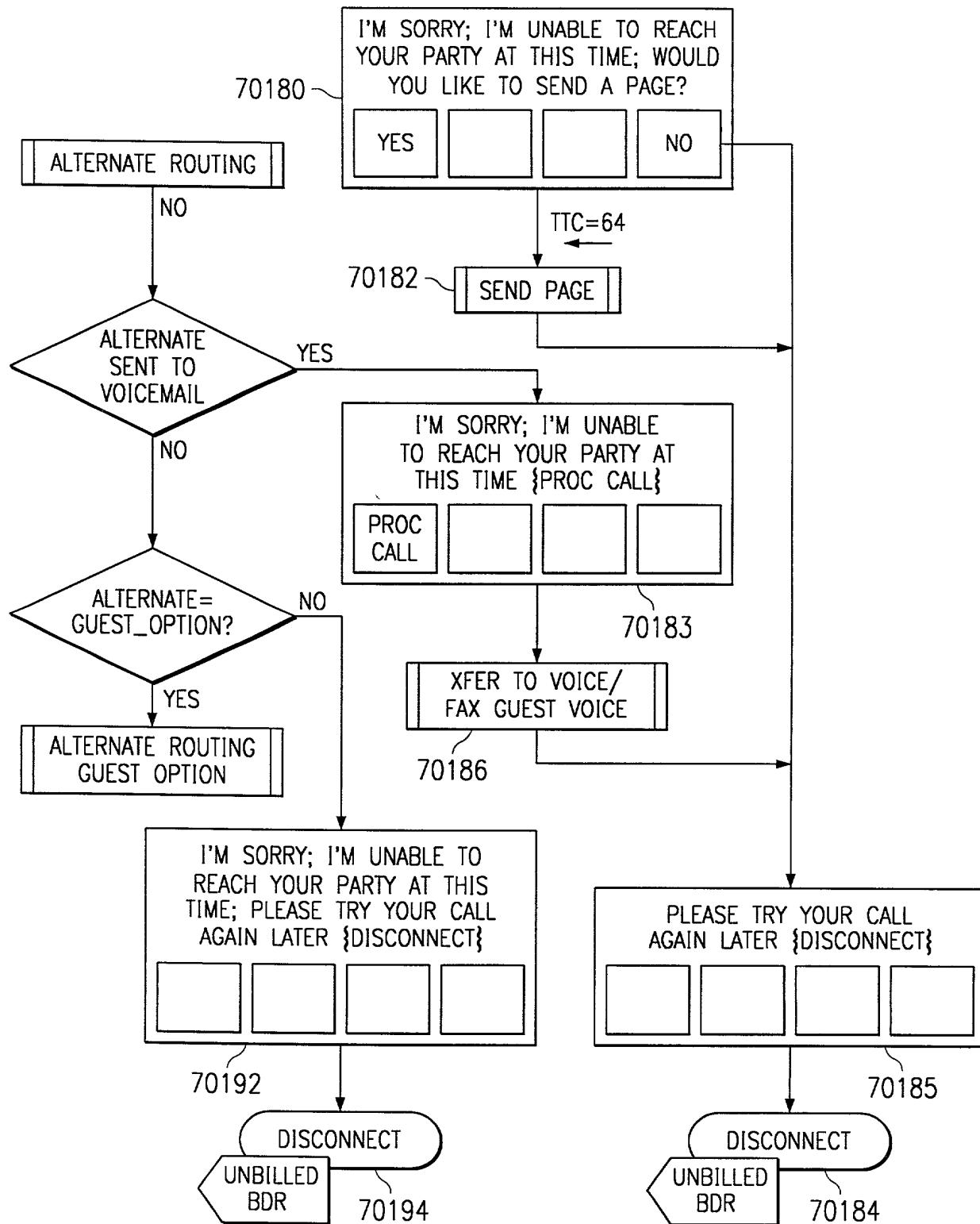


FIG. 701

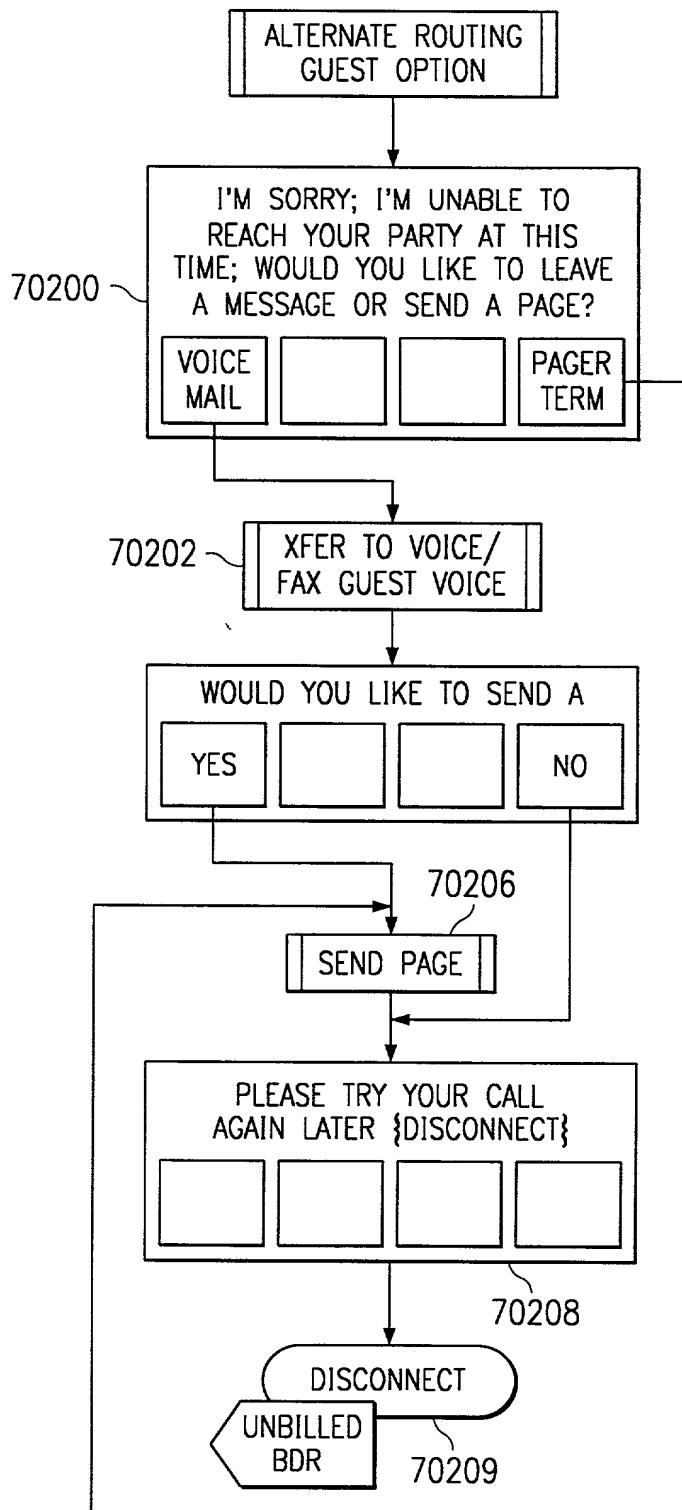


FIG. 70J

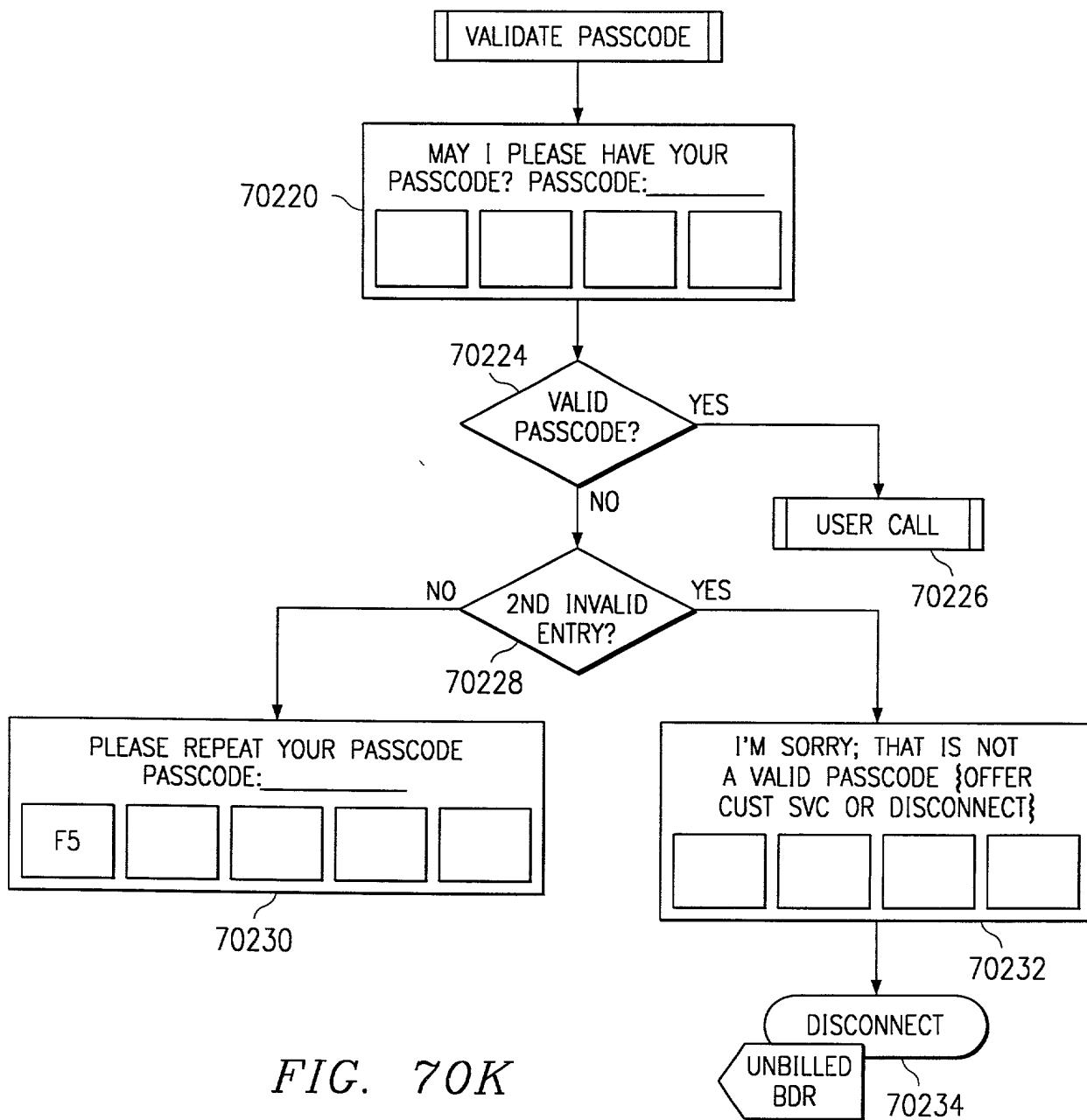


FIG. 70K

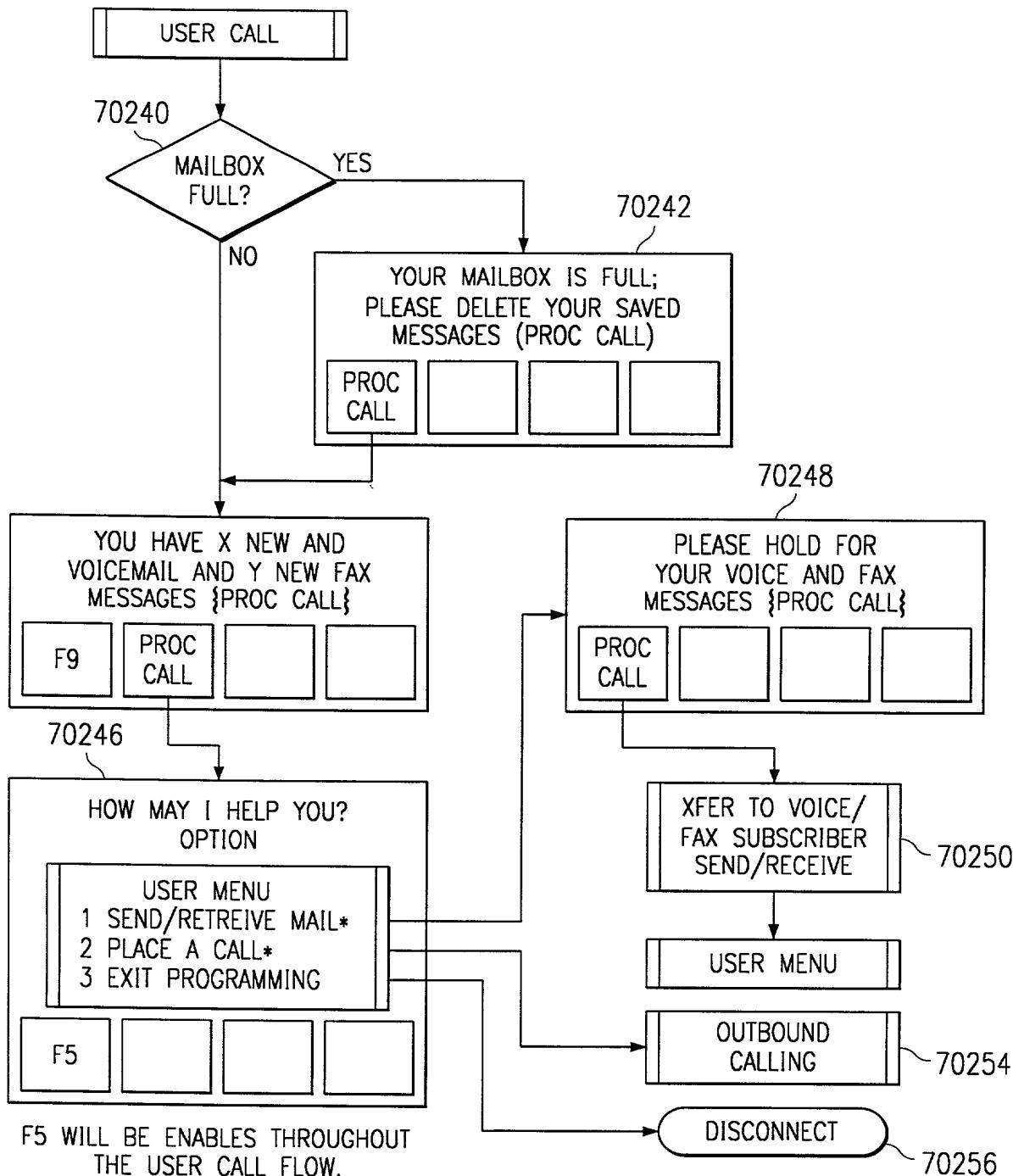


FIG. 70L

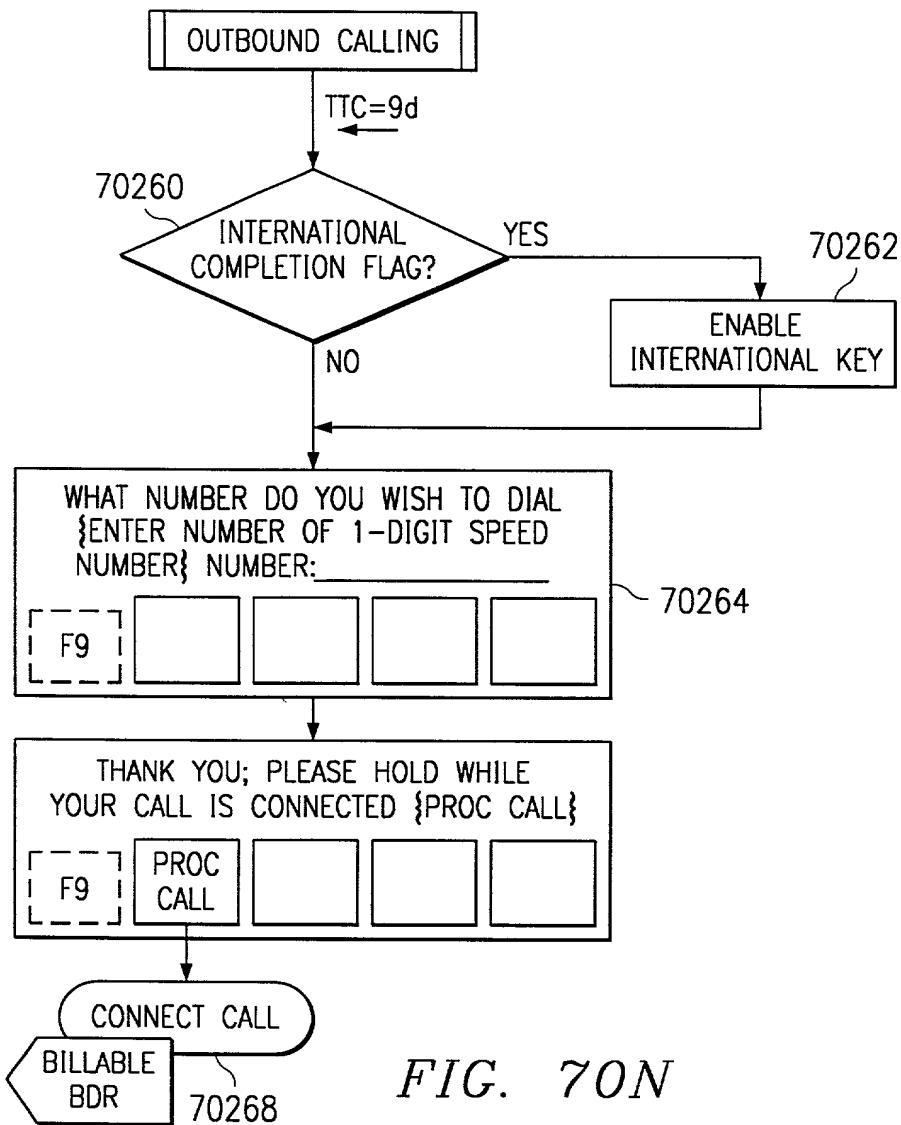


FIG. 70N

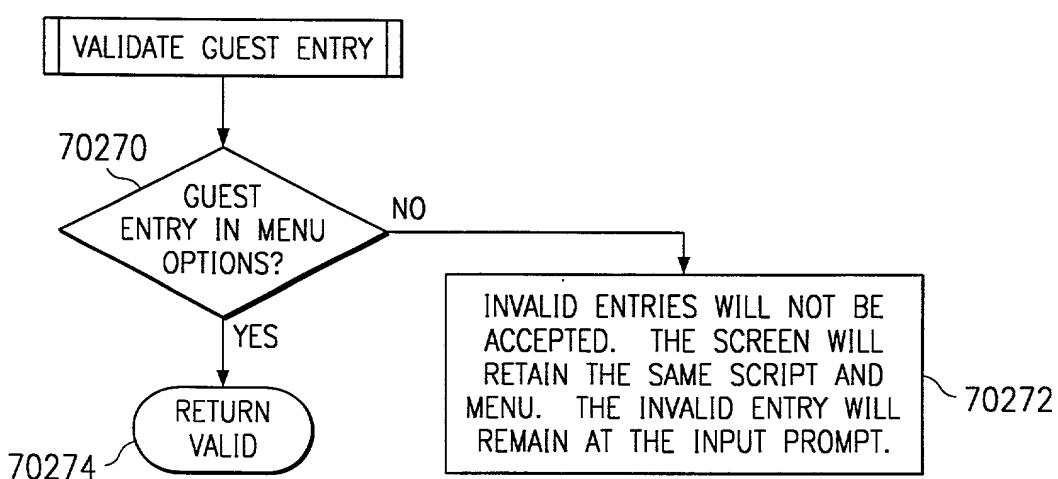


FIG. 70O

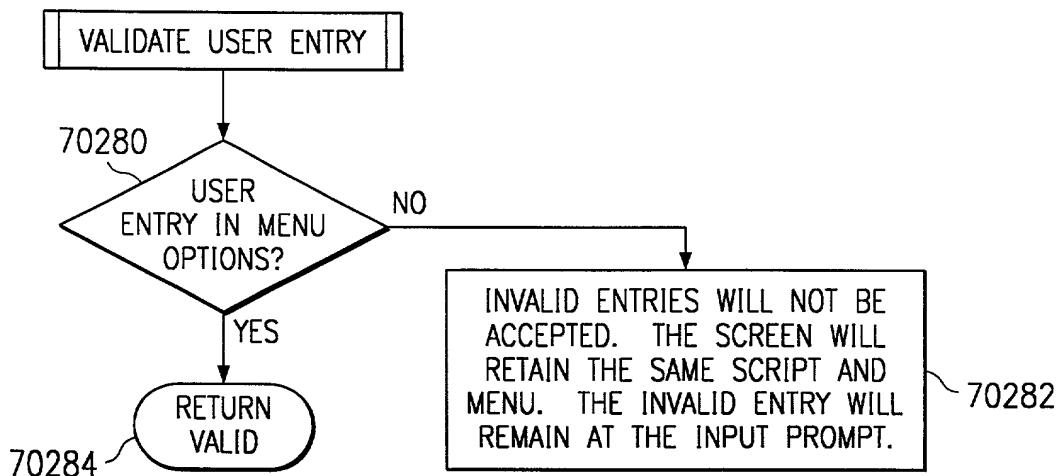


FIG. 70P

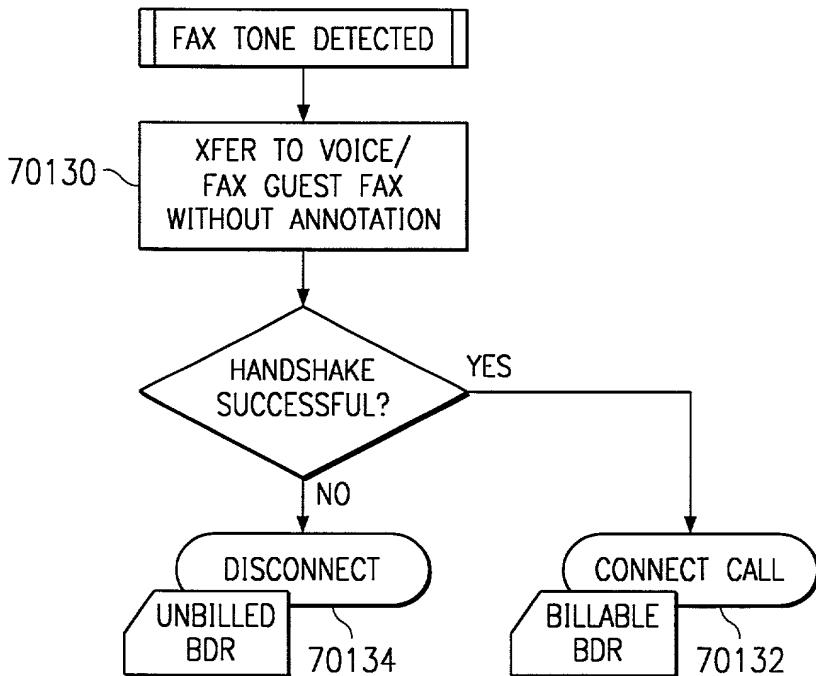


FIG. 70S

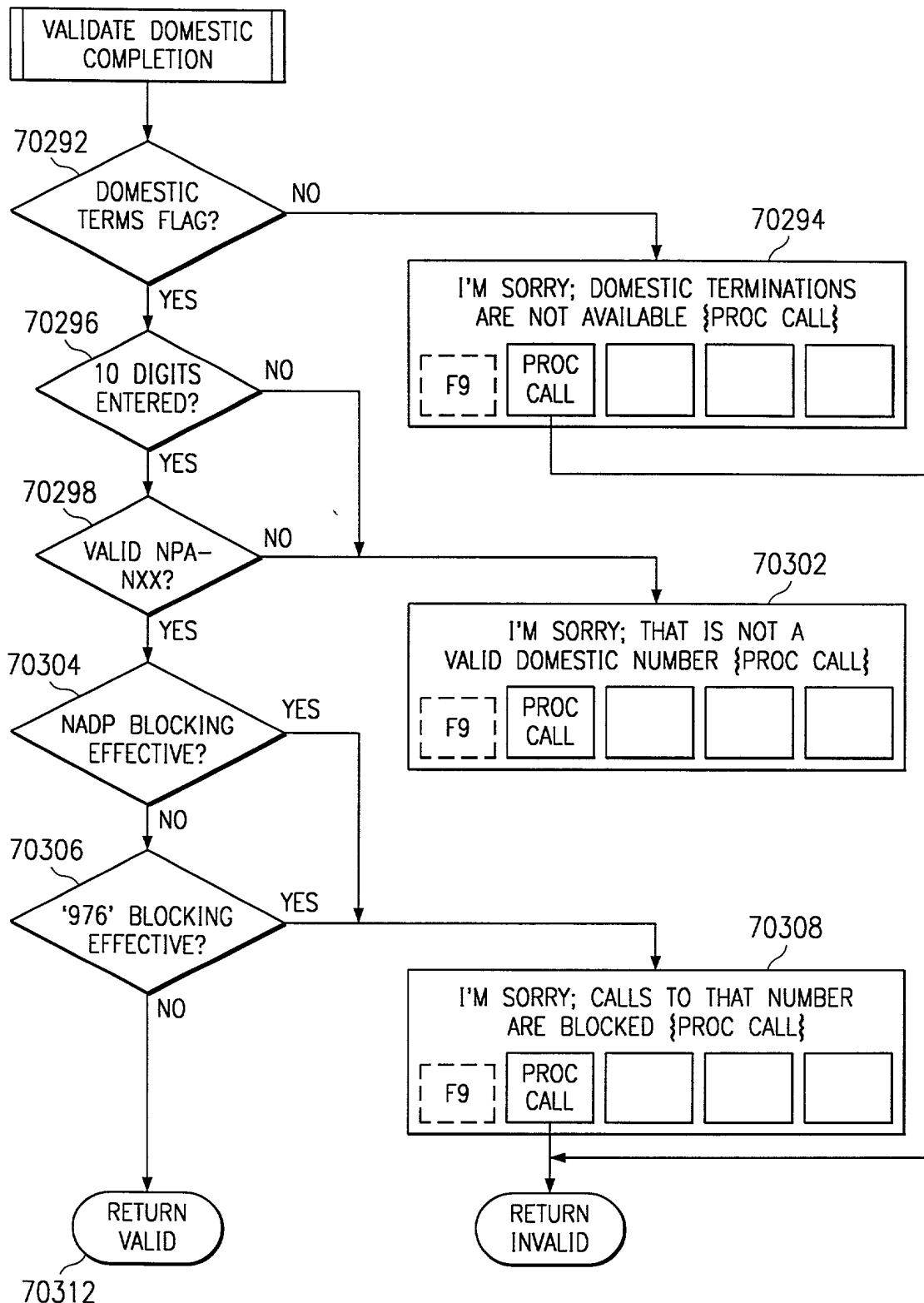


FIG. 70Q

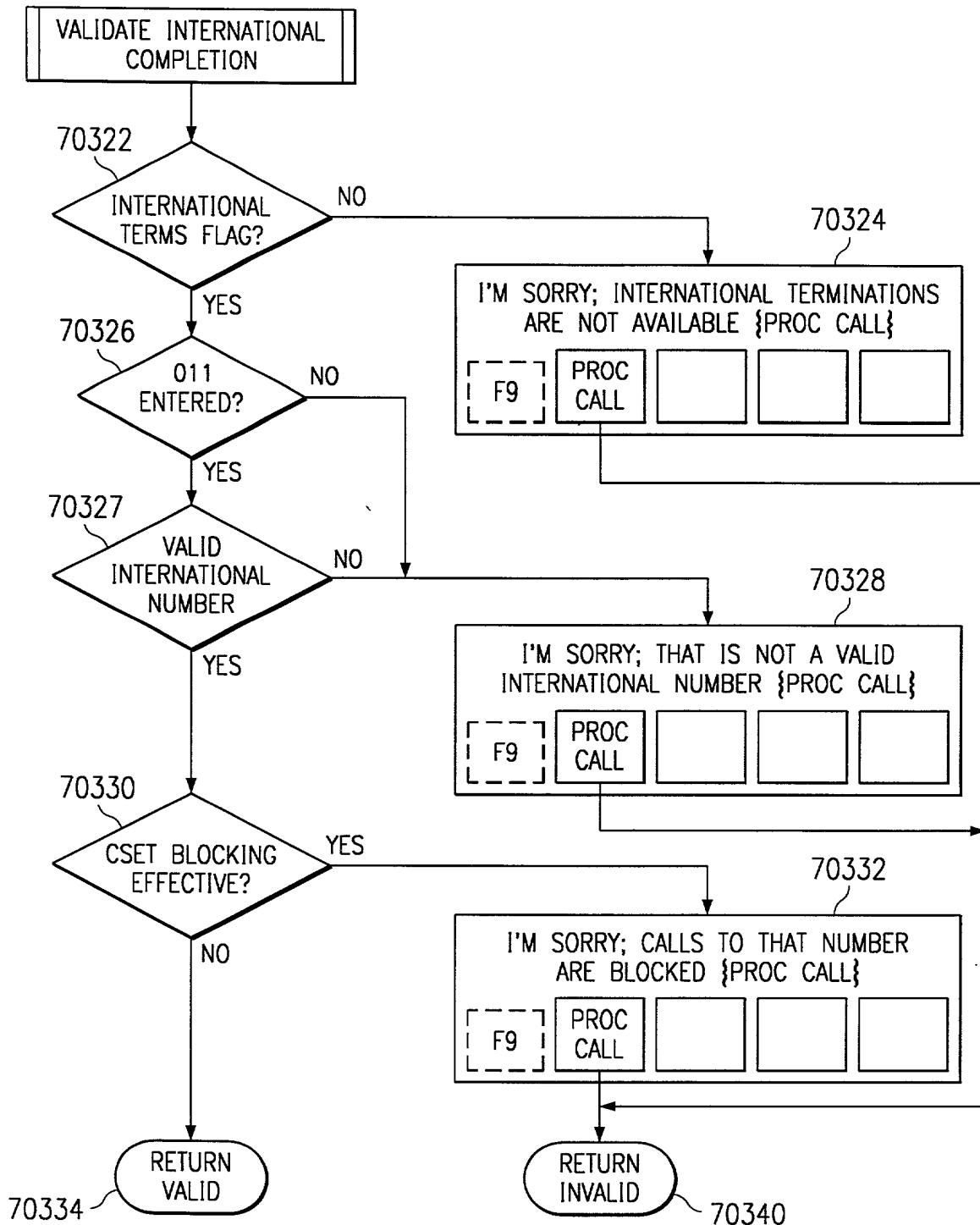


FIG. 70R

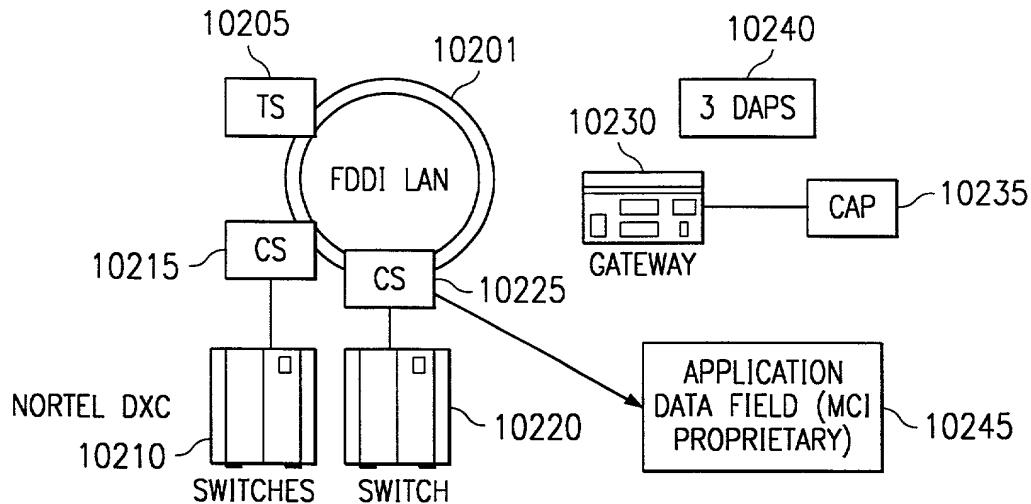


FIG. 71

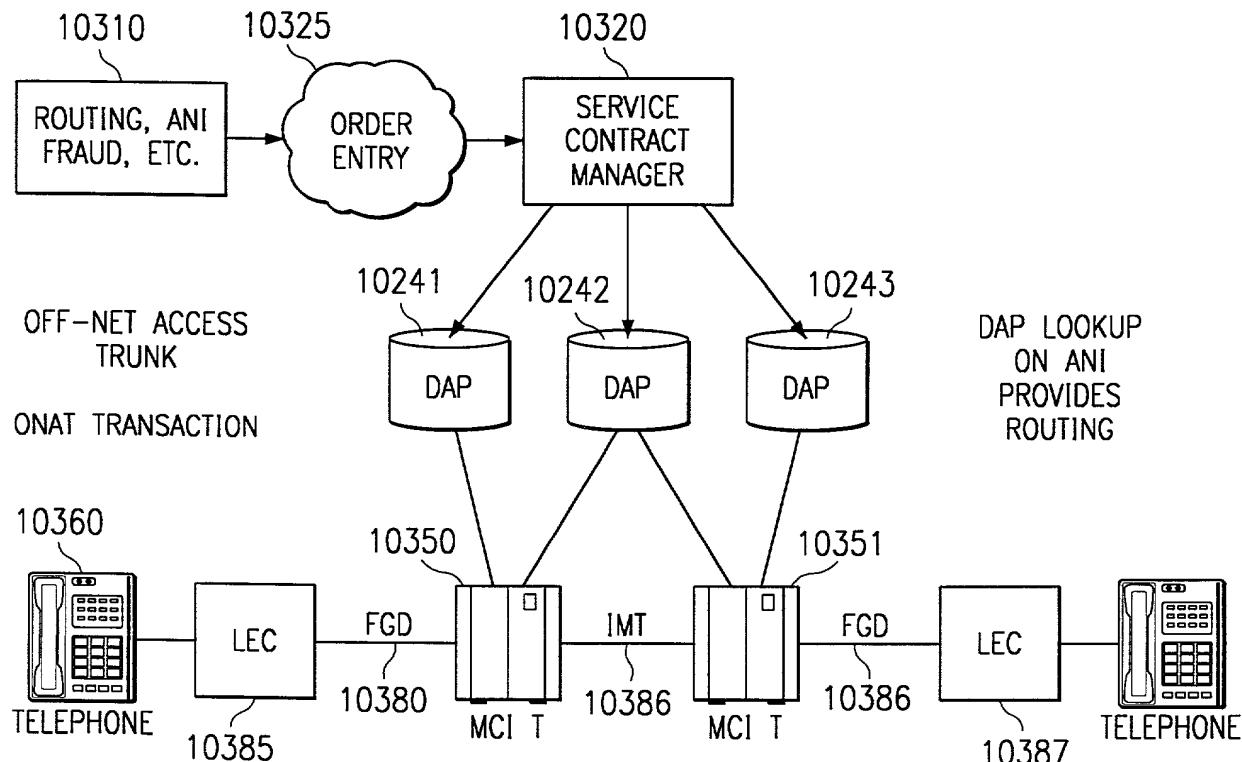


FIG. 72

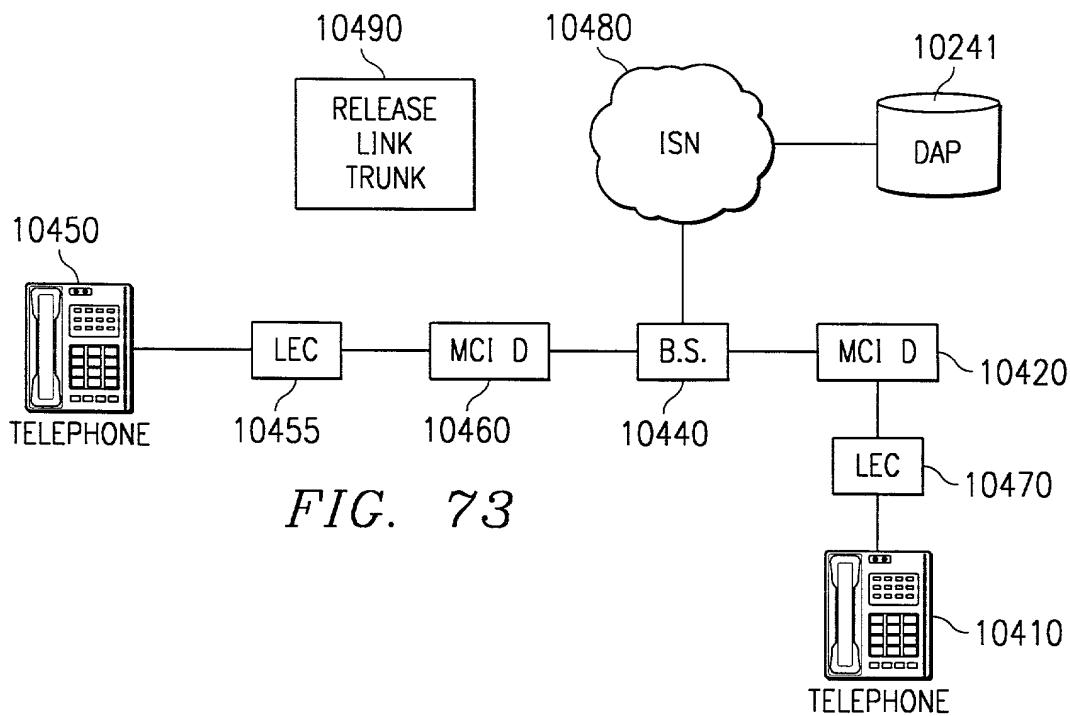


FIG. 73

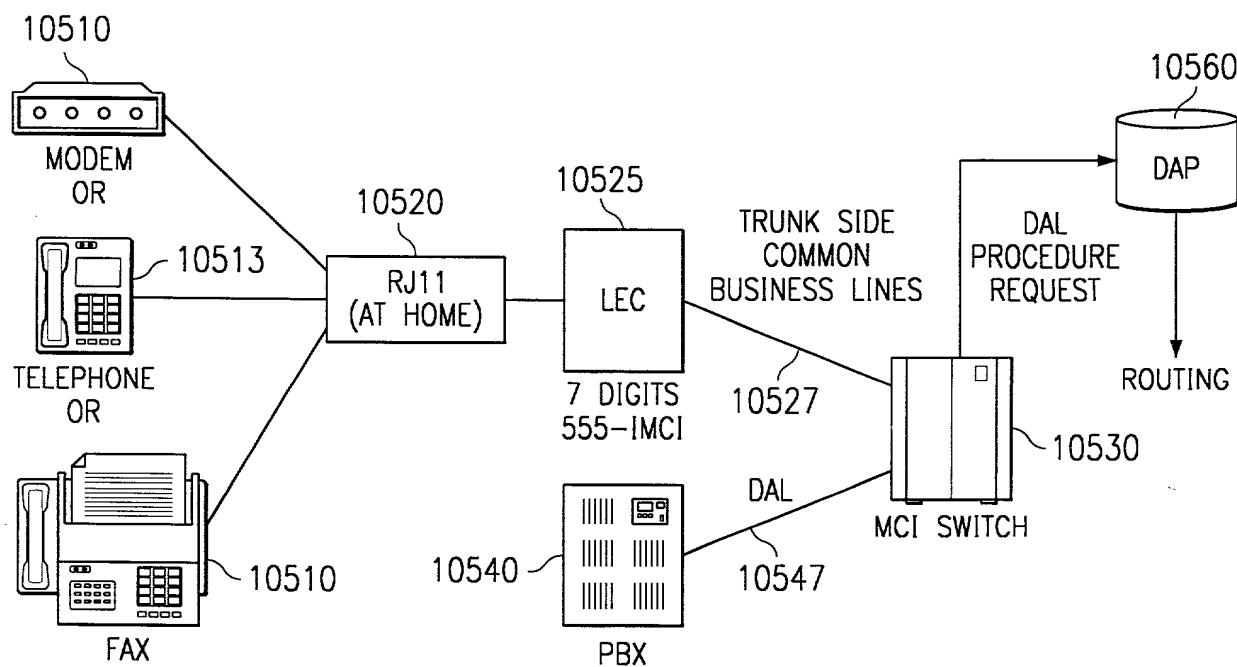
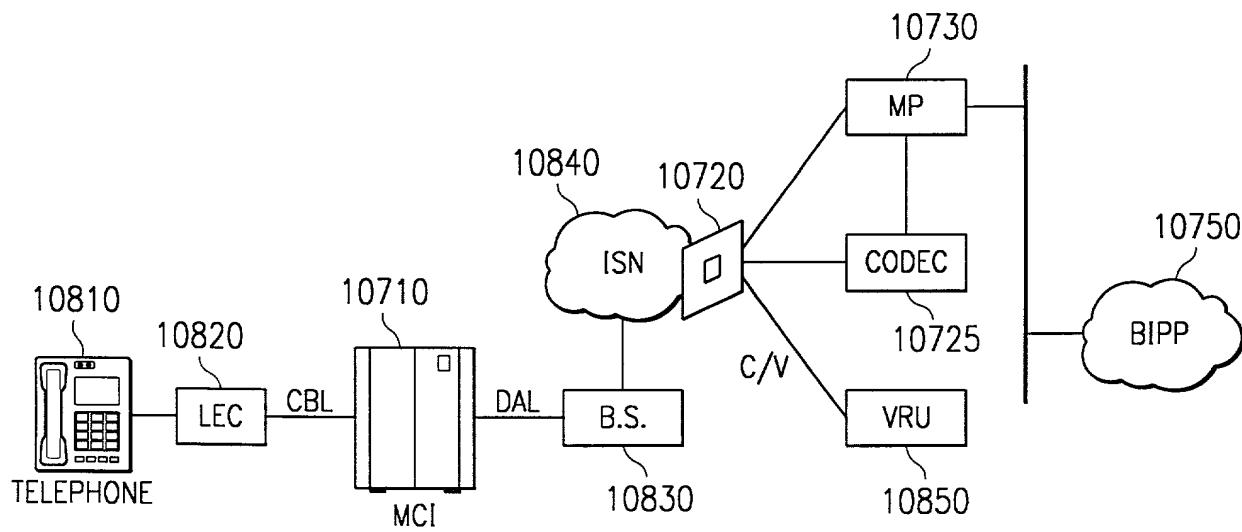
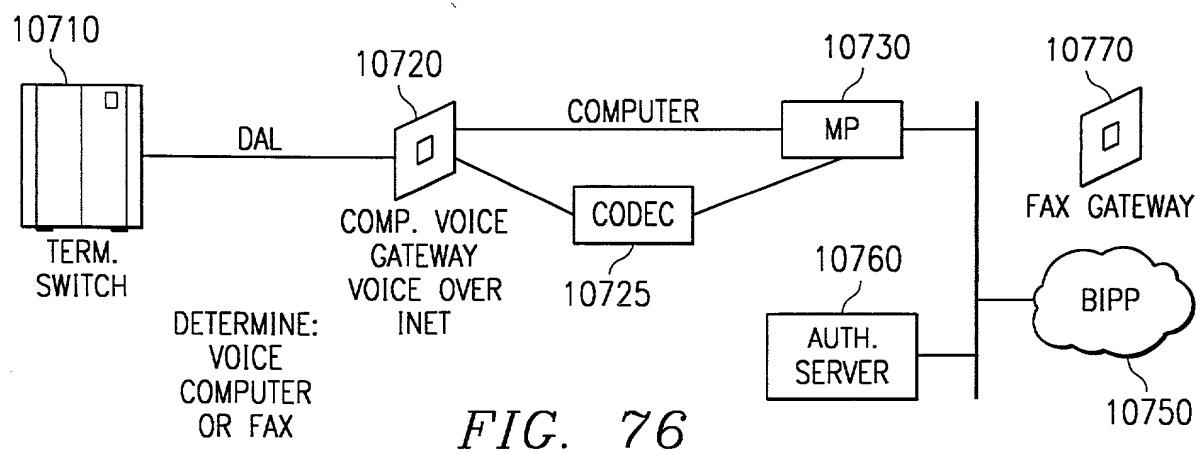
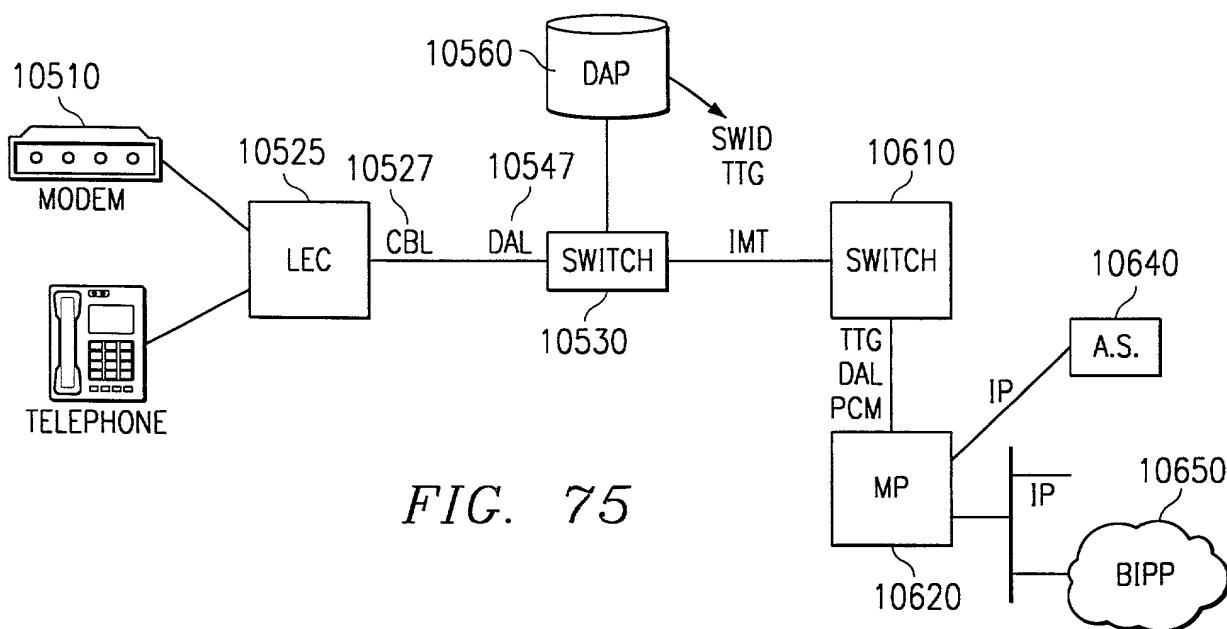


FIG. 74



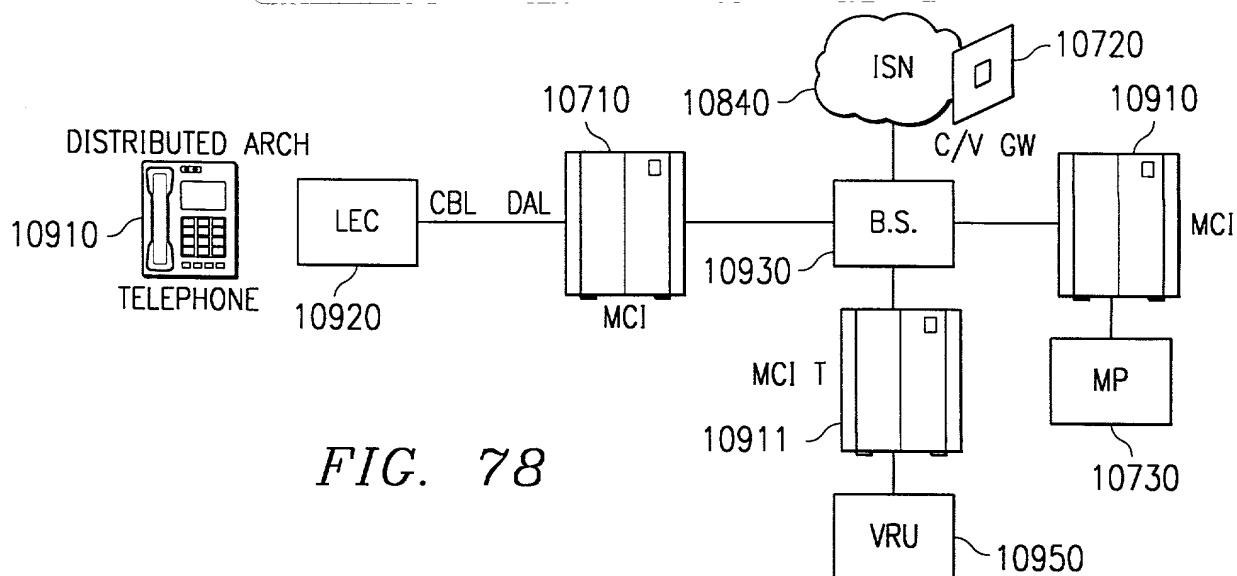


FIG. 78

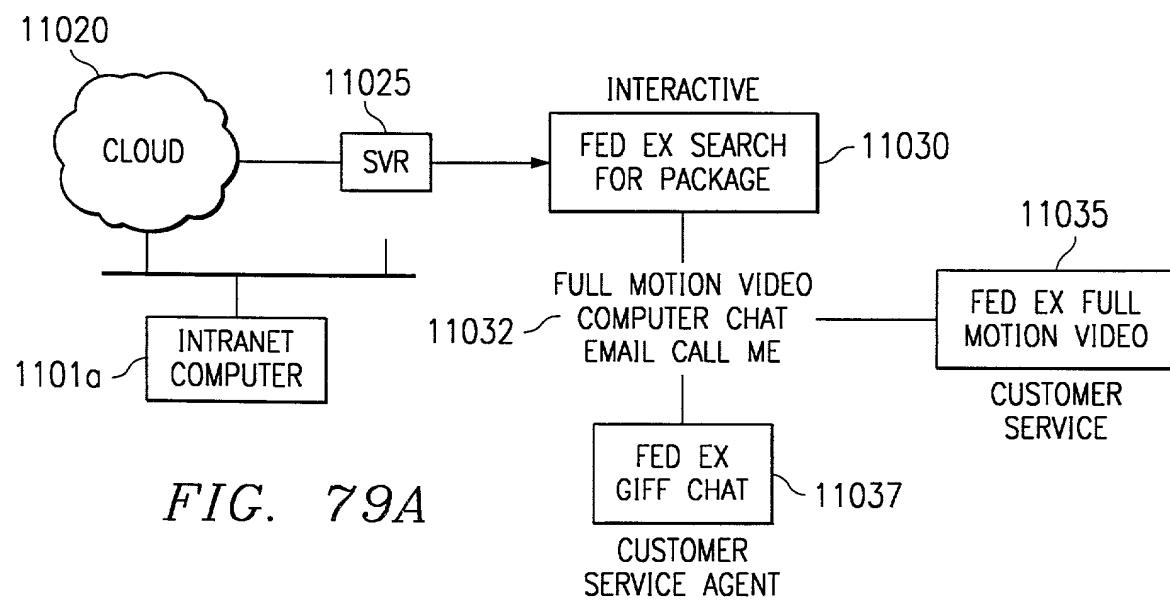


FIG. 79A

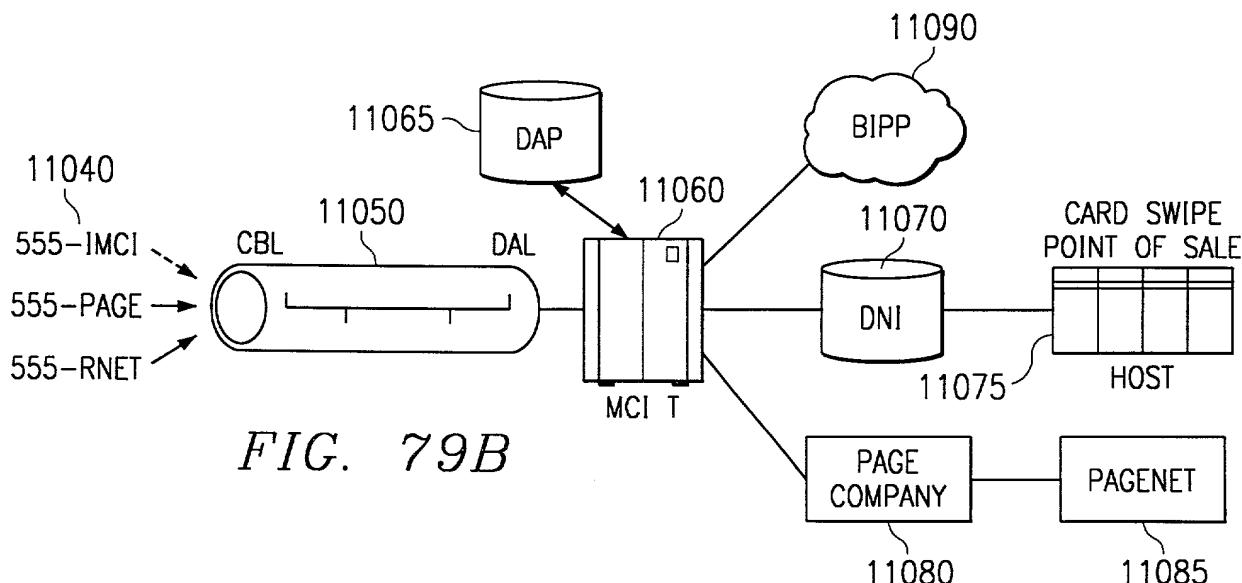


FIG. 79B

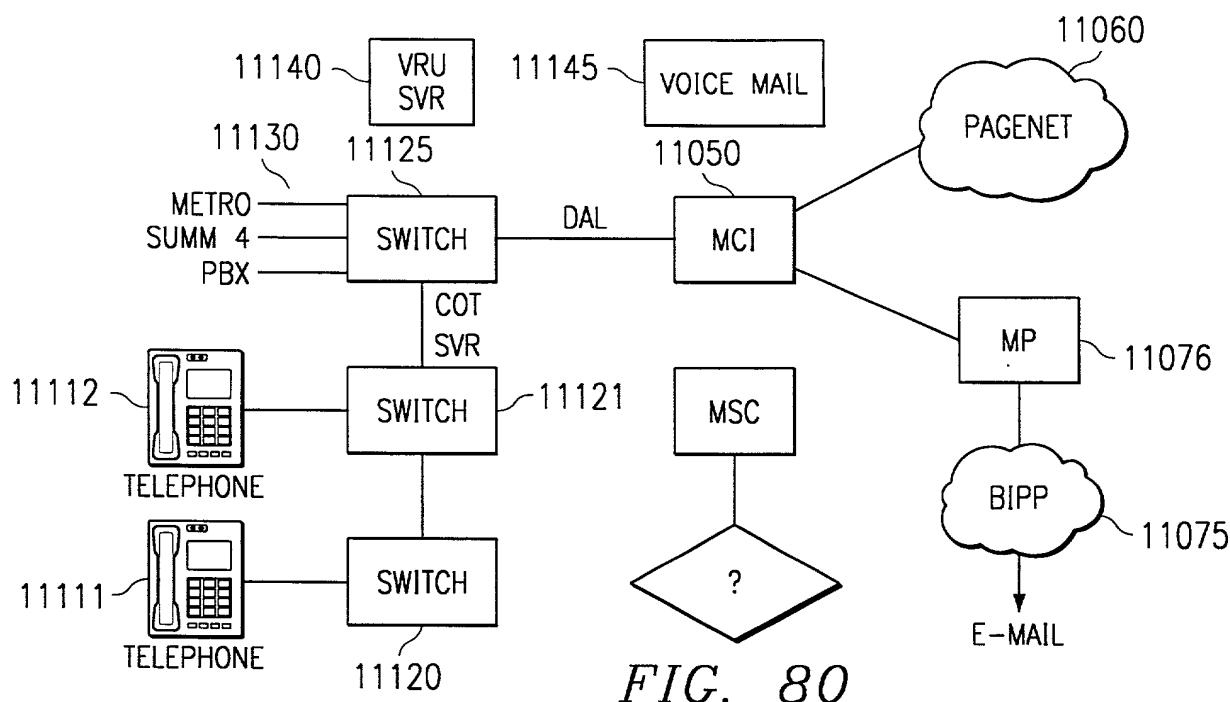


FIG. 80

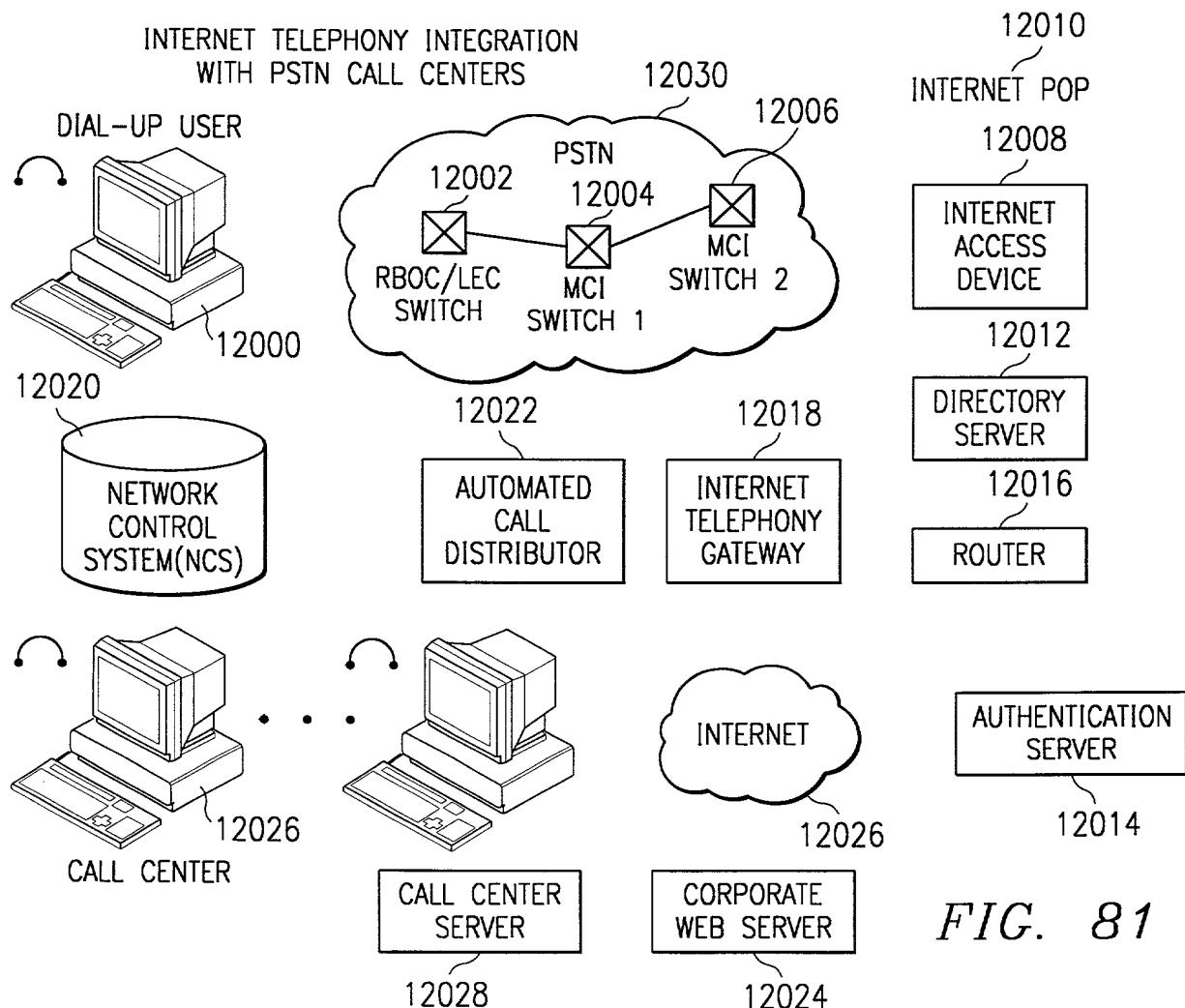


FIG. 81

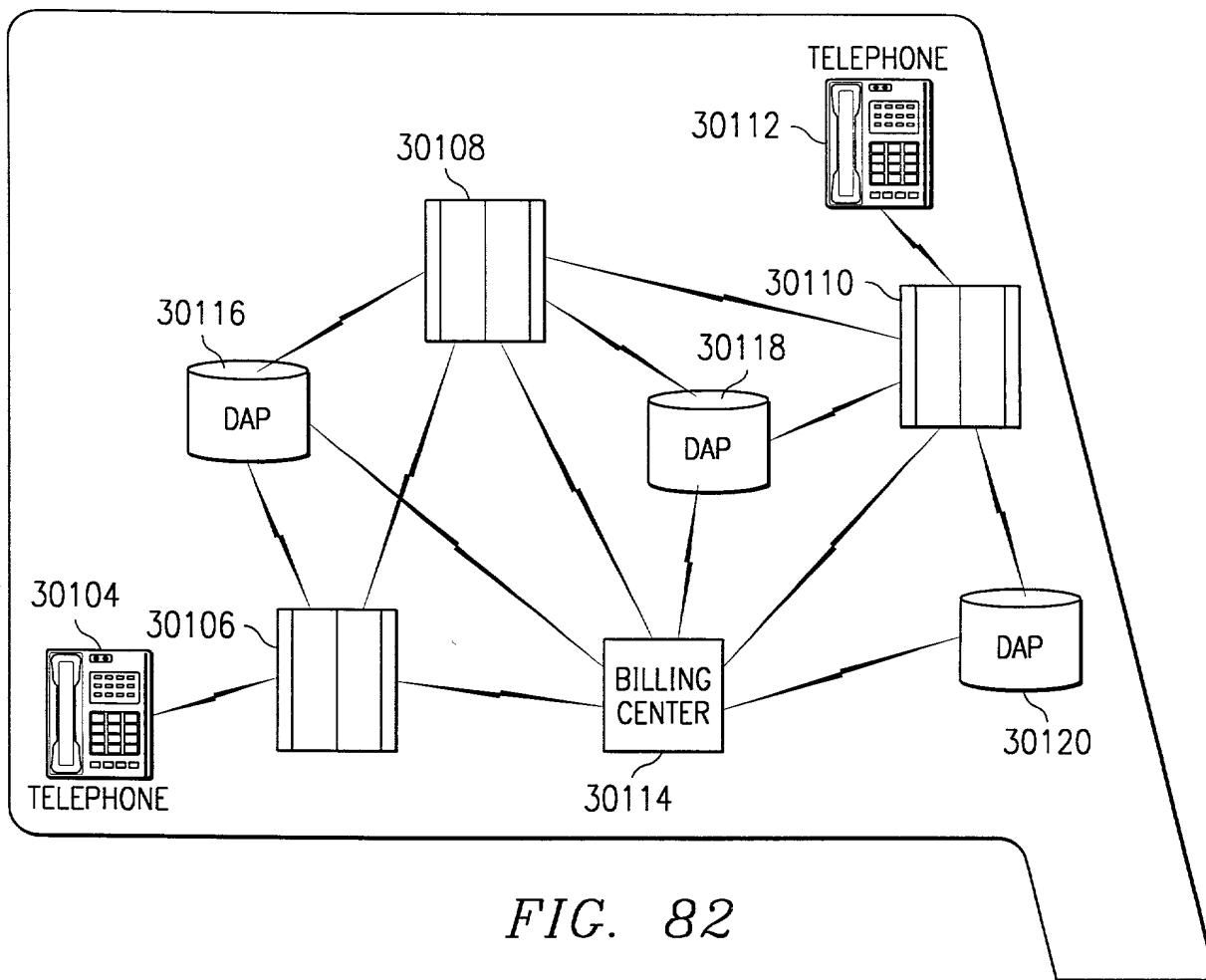


FIG. 82

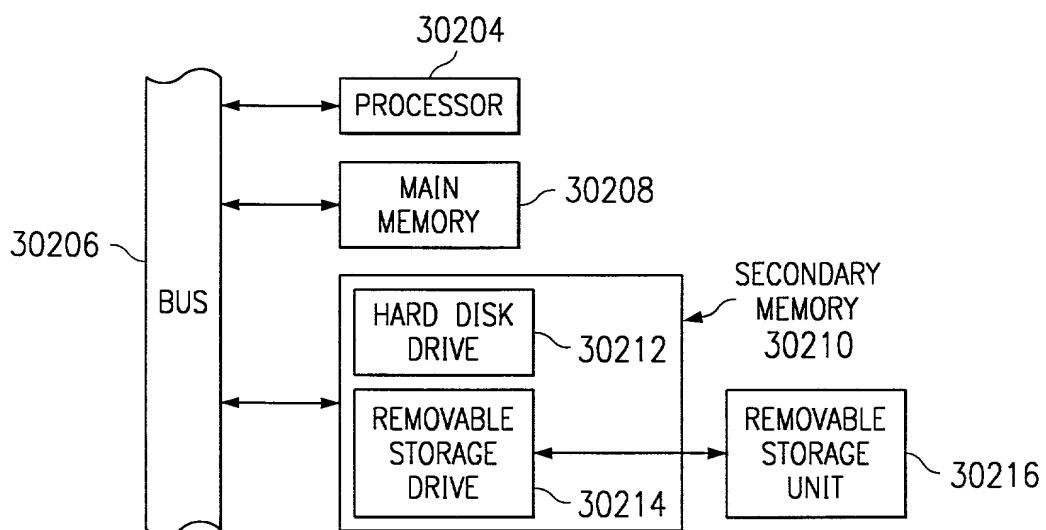


FIG. 83

WORD	BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	MSB	LSB
00	CRID																		
01																			
02																			
03																			
04																			
05																			
06																			
07	OP																		
08	TP																		
09																			
10	TP6Q																		
11																			
12	ID1																		
13	CLI 1																		
14	CLI 5																		
15	CLI 9																		
16	A3																		
17	A7																		
18	A11																		
19	A15																		
20	A19																		
21	A20																		
22	D1																		
23	D5																		
24	D9																		
25	D13																		
26	D17																		
27	D21																		
28	D25																		
29	D29																		
30	D33																		
31	D37																		
BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15			

FIG. 84

Inventors: ELLIOT et al

Sheets of Drawings 110 of 134

	MSB														LSB		
BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
WORD 00	CRID				CDID												
01	TP1 BITS 0-15																
02	TP1 BITS 16-31																
03	TP3 BITS 0-12										TP6 0-2						
04	TP6 BITS 3-12								TP7 BITS 0-5								
05	TP7 BITS 6-21																
06	OPL, ORIGINATING PORT 0-15																
07	OP	TPL, TERMINATING PORT 0-14															
08	TP	OTC, ORIGINATING TRUNK GROUP												TT			
09	TERMINATING TRUNK GROUP (1-12)												TP3Q				
10	TP6Q	ACTION CODE				OTC				TTC							
11	ID1		ID2		ANI INDEX												
12	CLI 1		CLI 2		CLI 3		CLI 4		CLI 5		CLI 6		CLI 7		CLI 8		
13	CLI 9		CLI 10		CLI 11		CLI 12		CLI 13		CLI 14		CLI 15		A1		
14	A2		A3		A4		A5		A6		A7		A8		A9		
15	A10		A11		A12		A13		A14		A15		A16		A17		
16	A18		A19		A20		A21		A22		A23		A24		A25		
17	A26		A27		A28		A29		A30		A31		A32		A33		
18	A34		A35		A36		A37		A38		A39		A40		A41		
19	A42		A43		A44		A45		PC		TMC		KMP		TP70		
20	EC, ENTRY CODE						PO		MDID		DIVID						
21	DO	MN	CC	IN	SC	CD	DE	DT			SA		MOCLI				
22	CN1				CN2				CN3				CN4				
23	ACIF				SS7 RELEASE CODE						MCIDSEQ			NL	RS		

FIG. 85A

BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	MSB	LSB
32																		
33																		
34	D1		D2			D3					D4							
35	D5		D6			D7					D8							
36	D9		D10			D11					D12							
37	D13		D14			D15					D16							
38	D17		D18			D19					D20							
39	D21		D22			D23					D24							
40	D25		PTD1			PTD2					PTD3							
41	PTD4		PTD5			PTD6					PTD7							
42	PTD8		PTD9			PTD10					PTD11							
43	PTD12		PTD13			PTD14					PTD15							
44	EIR CALL TYPE								OVFVAL						CB			
45	OVFCL		DTA 1			DTA 2					DTA 3							
46	DTA 4		DTA 5			DTA 6					DTA 7							
47	DTA 8		DTA 9			DTA 10					DTA 11							
48	DTA 12		DTA 13			DTA 14					DTA 15							
49	OVFC								DTAC						MCID			
50																		
51																		
52																		
53																		
54																		
55																		
56																		
57																		
58																		
59														USE TYPE	UUIE			
60															OVFCS			
61																		
62																		
63																		

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

FIG. 85B

WORD	BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	MSB	LSB
00	CRID																		
01																			
02																			
03																			
04																			
05																			
06																			
07	OP																		
08	TP																		
09																			
10	TP6Q																		
11	ID1																		
12	CLI 1																		
13	CLI 5																		
14	CLI 9																		
15	A3																		
16	A7																		
17	A11																		
18	A15																		
19	A19																		
20	D1																		
21	D5																		
22	D9																		
23	D13																		
24	D17																		
25	OPIN																		
26	RN1																		
27	FC																		
28	EC, ENTRY CODE																		
29	DO	CC	IN	SC	CD	DE	DT	PP	XC	SA									
30	CN1			CN2					CN3										
31	ACIF																		

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15

FIG. 86

WORD	BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
	MSB															LSB	
00	CRID																
01																	
02																	
03																	
04																	
05																	
06																	
07	OP																
08	TP																
09																	
10	TP6Q																
11																	
12	ID1																
13	CLI 1																
14	CLI 5																
15	CLI 9																
16	CLI 13																
17	A2																
18	A6																
19	A10																
20	A14																
21	A18																
22	A22																
23	A26																
24	A30																
25	A34																
26	A38																
27	A42																
28	PC																
29																	
30	EC, ENTRY CODE																
31	DO	MN	CC	IN		SC	CD	DE	DT	PP	XC	SA					
	CN1					CN2				CN3					CN4		
	ACIF														MCIDSEQ	NL	RS
	BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

EOSR/EPOSR FORMAT

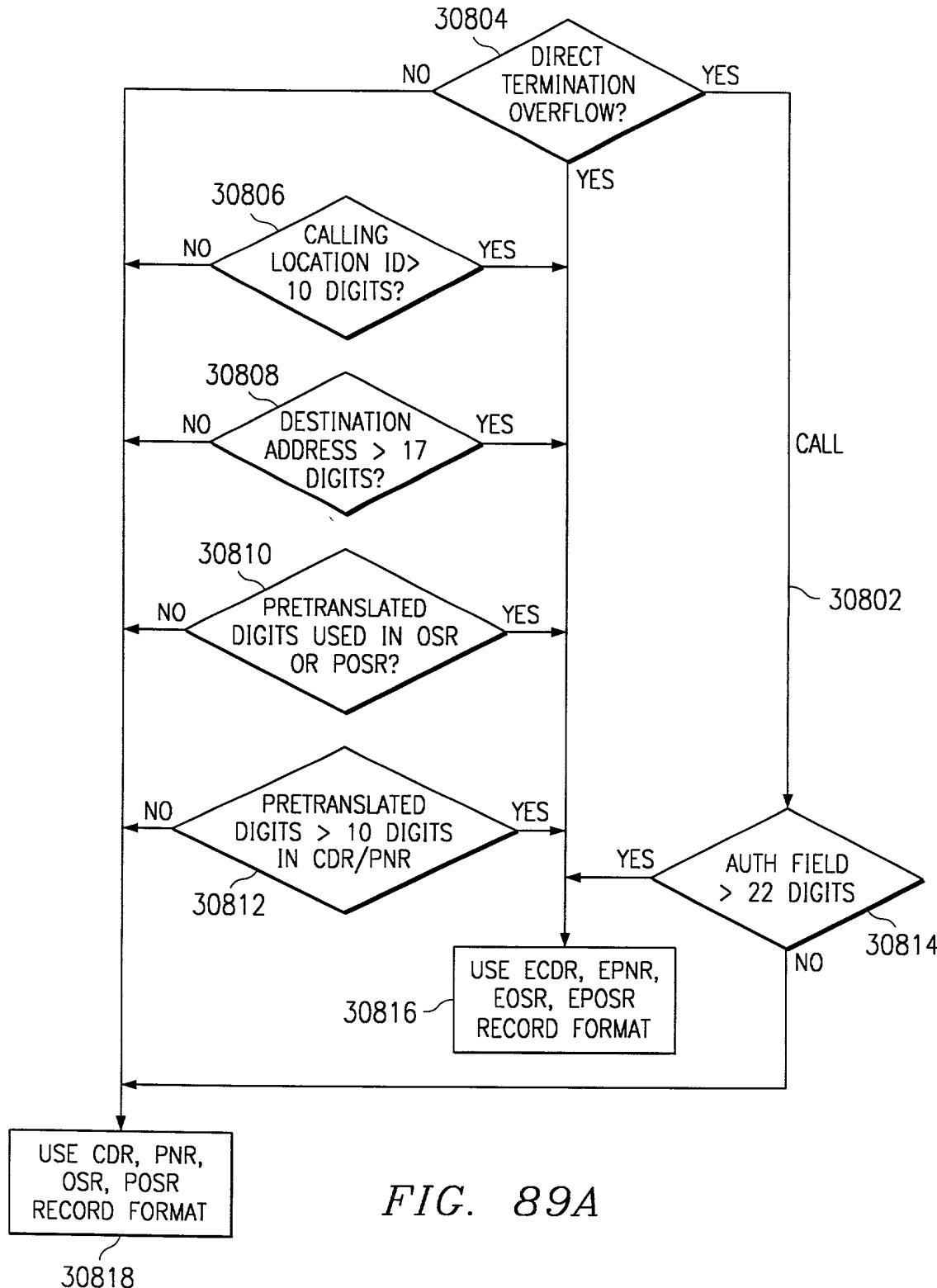
FIG. 87A

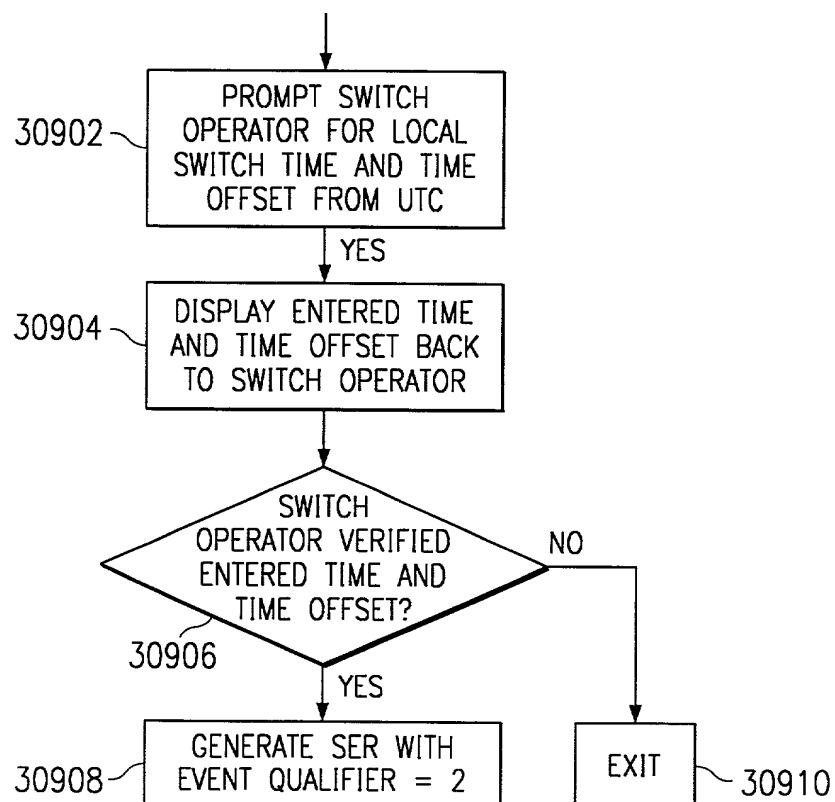
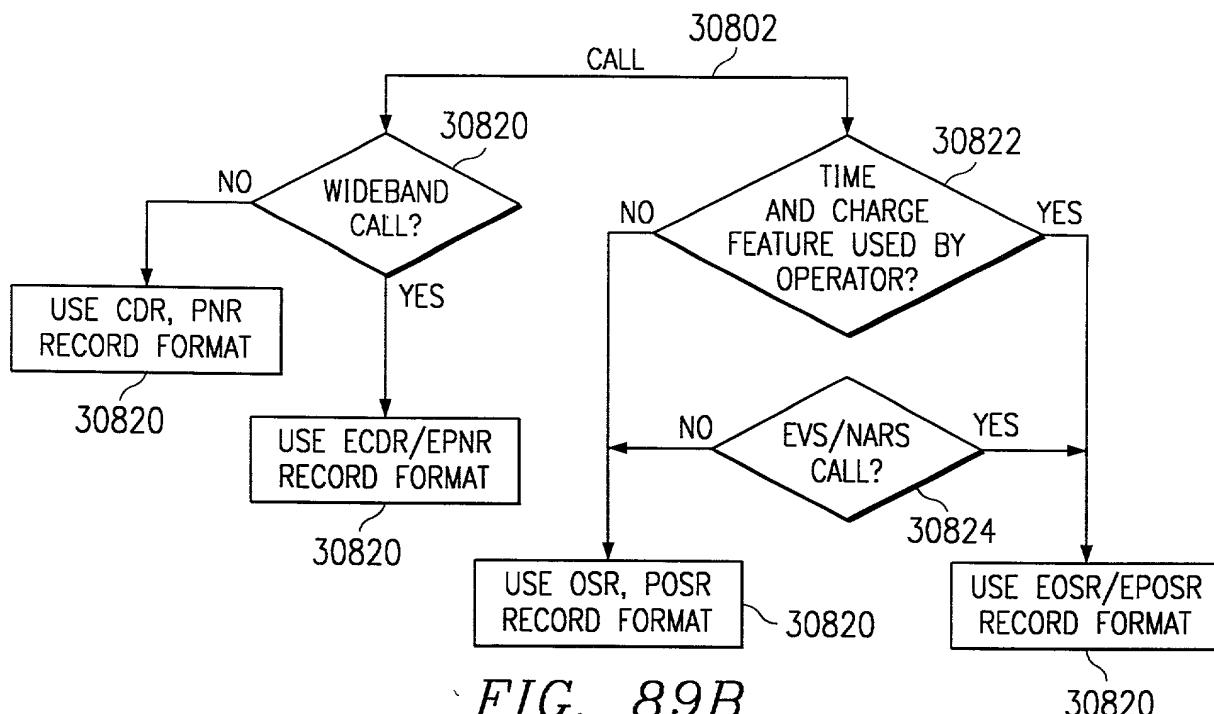
BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	LSB
32	T&C GUEST 1				T&C GUEST 2												
33	T&C GUEST 3				T&C GUEST 4												
34	D1	D2			D3			D4									
35	D5	D6			D7			D8									
36	D9	D10			D11			D12									
37	D13	D14			D15			D16									
38	D17	D18			D19			D20									
39	D21	D22			D23			D24									
40	D25	PTD1			PTD2			PTD3									
41	PTD4	PTD5			PTD6			PTD7									
42	PTD8	PTD9			PTD10			PTD11									
43	PTD12	PTD13			PTD14			PTD15									
44	EIR CALL TYPE				OVFVAL								CB				
45	OVFCL	DTA 1			DTA 2			DTA 3									
46	DTA 4	DTA 5			DTA 6			DTA 7									
47	DTA 8	DTA 9			DTA 10			DTA 11									
48	DTA 12	DTA 13			DTA 14			DTA 15									
49	OVFC				DTAC								MCID				
50	NETWORK CALL IDENTIFIER (NCID)																
51	NETWORK CALL IDENTIFIER (NCID)																
52	NETWORK CALL IDENTIFIER (NCID)																
53	NETWORK CALL IDENTIFIER (NCID)																
54	NETWORK CALL IDENTIFIER (NCID)																
55	T&C ROOM 1				T&C ROOM 2												
56	T&C ROOM 3				T&C ROOM 4												
57	T&C ROOM 5				T&C ROOM 6												
58	KAC1	KAC2			KAC3			KAC4									
59	KAC5	KAC6			KAC7			KAC8									
60	KAC9	KAC10			KAC11			KAC12									
61	OPIN												OVFCS				
62	TPS - OPERATOR RELEASE																
63	RN1	RN2			RN3			RN4									
BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	

FIG. 87B

WORD	BIT	MSB	LSB
	00	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15	
00	CRID	SYNC WORD (MINUS 2, OCTAL 7776)	
01		CDID, CALL DISCONNECT I.D. NUMBER (0-15)	
02		CDID, CALL DISCONECT I.D. NUMBER (16-31)	
03	SWID 1	SWID 2	SWID 3
04	ST - SWITCH TYPE	EQ - EVENT QUALIFIER	
05		SERET - SER EVENT TIME (0-15)	
06		SERET - SER EVENT TIME (16-31)	
07		FCDID - FIRST RECORD CDID (12 LSBs)	
08		LCDID - LAST RECORD CDID (12 LSBs)	
09		NCDID - NEXT RECORD CDID (12 LSBs)	
10		NBSM - NEXAS BLOCK SEQUENCE MONSTER	
11		PT - PREVIOUS TIME (0-15)	
12		PT - PREVIOUS TIME (16-31)	
13	SI	TIME OFFSET	
14			
15			
16		SOFTWARE LOAD ID1	SOFTWARE LOAD ID2
17		SOFTWARE LOAD ID3	SOFTWARE LOAD ID4
18		SOFTWARE LOAD ID5	SOFTWARE LOAD ID6
19		LAST PATCH/PR RLS1	LAST PATCH/PR RLS2
20	QCDR	QICDR	
21	QPMR	QEPMR	
22	QOER	QEOMR	
23	QPOER	QEPOER	
24	QSER	CRYN	SU
25		CIR THROTTLE START TIME (0-15)	
26		CIR THROTTLE START TIME (16-31)	
27		CIR THROTTLE STOP TIME (0-15)	
28		CIR THROTTLE STOP TIME (16-31)	
29			FORMAT VER.
30		THROTTLE COUNT (0-15)	
31		THROTTLE COUNT (16-31)	

BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15





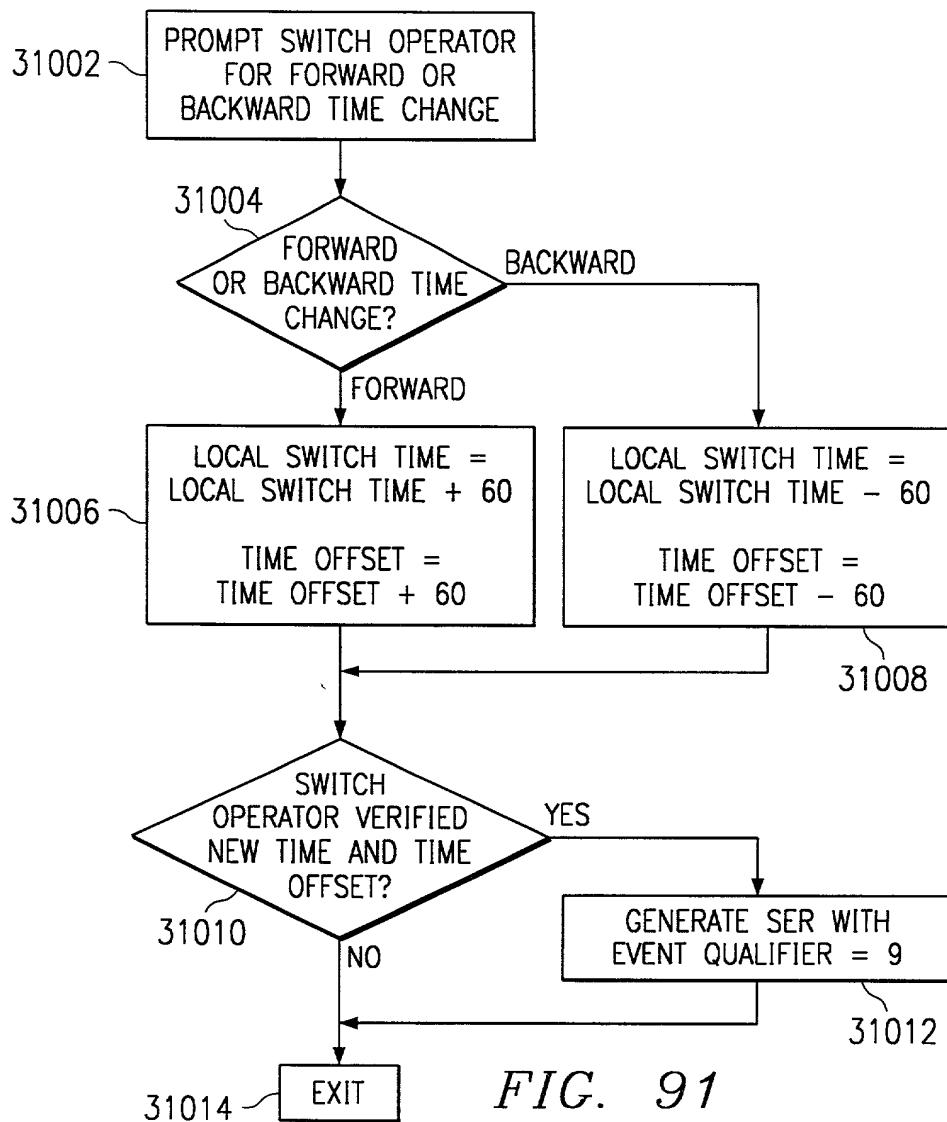


FIG. 91

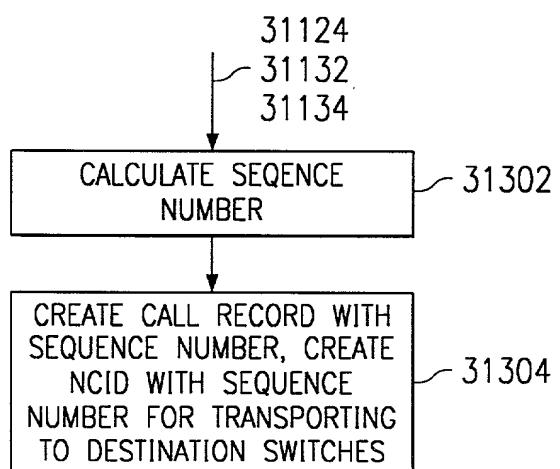


FIG. 94A

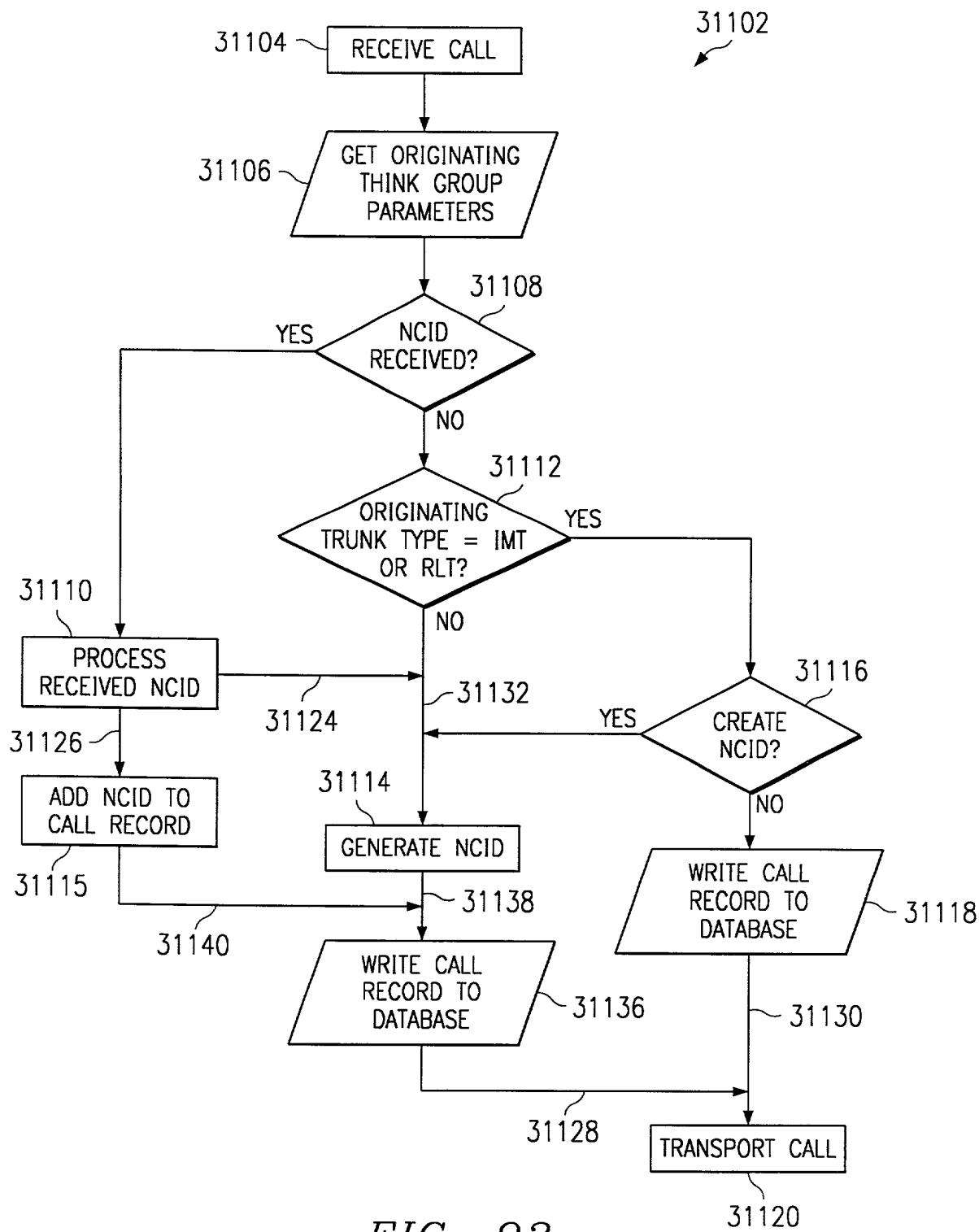


FIG. 92

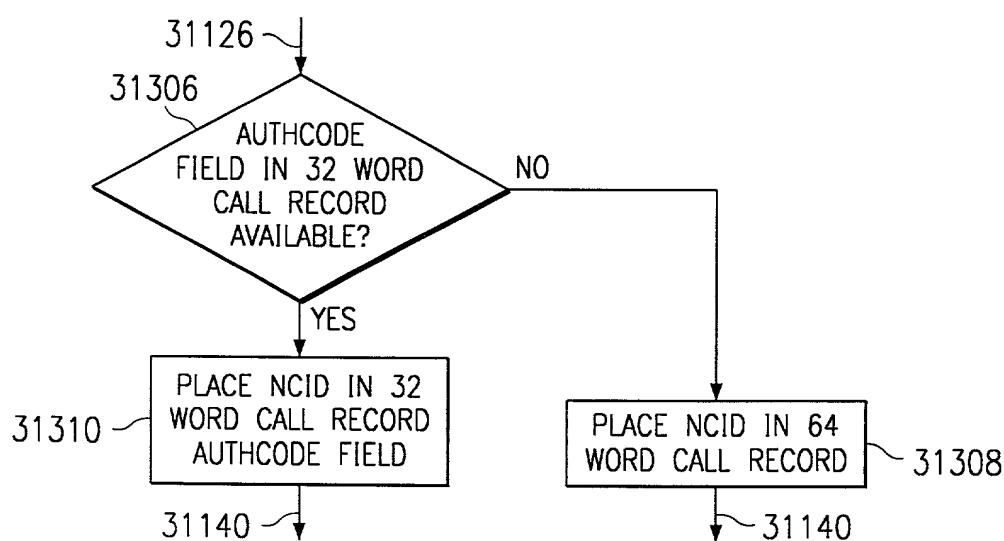
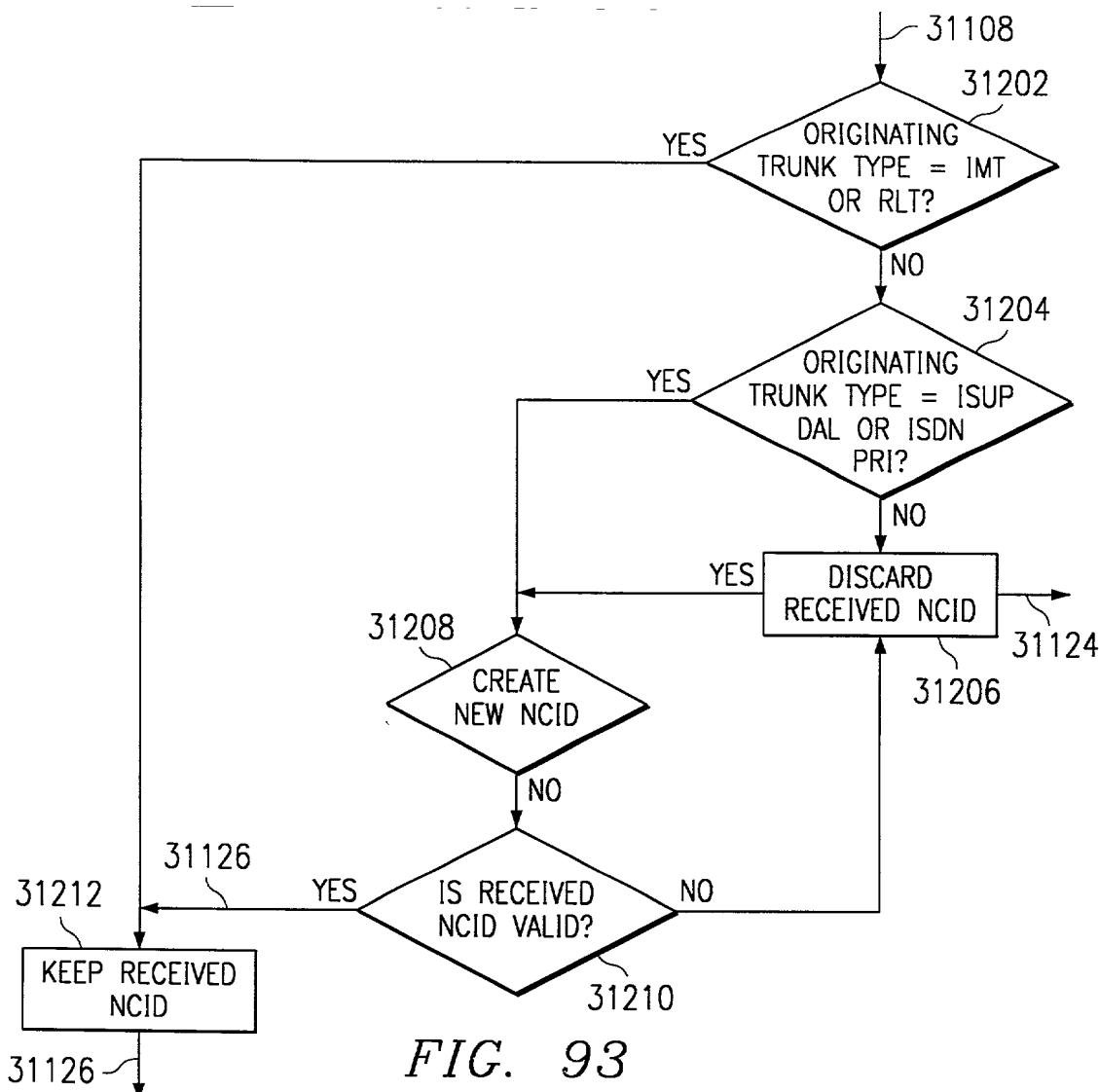


FIG. 94B

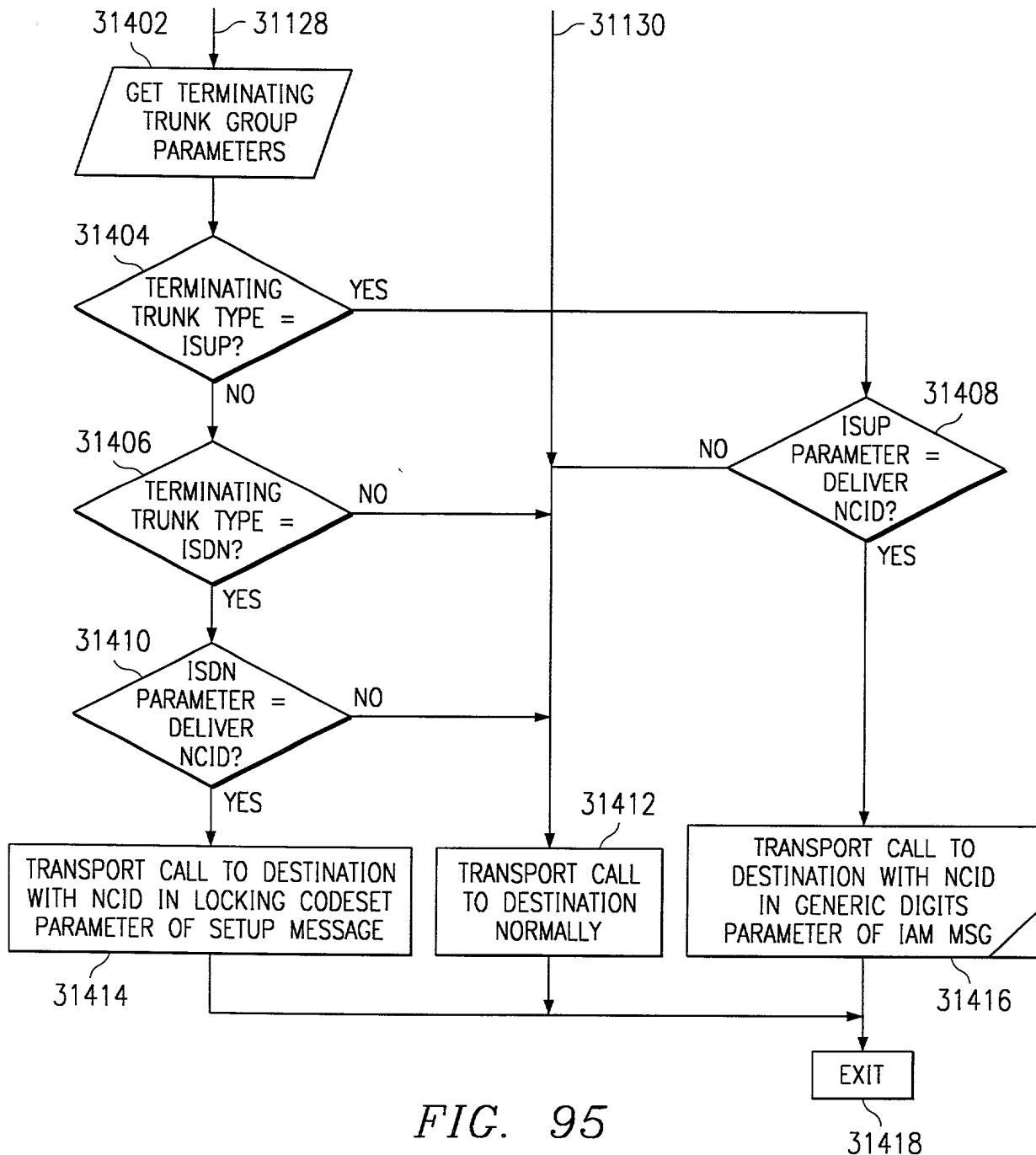


FIG. 95

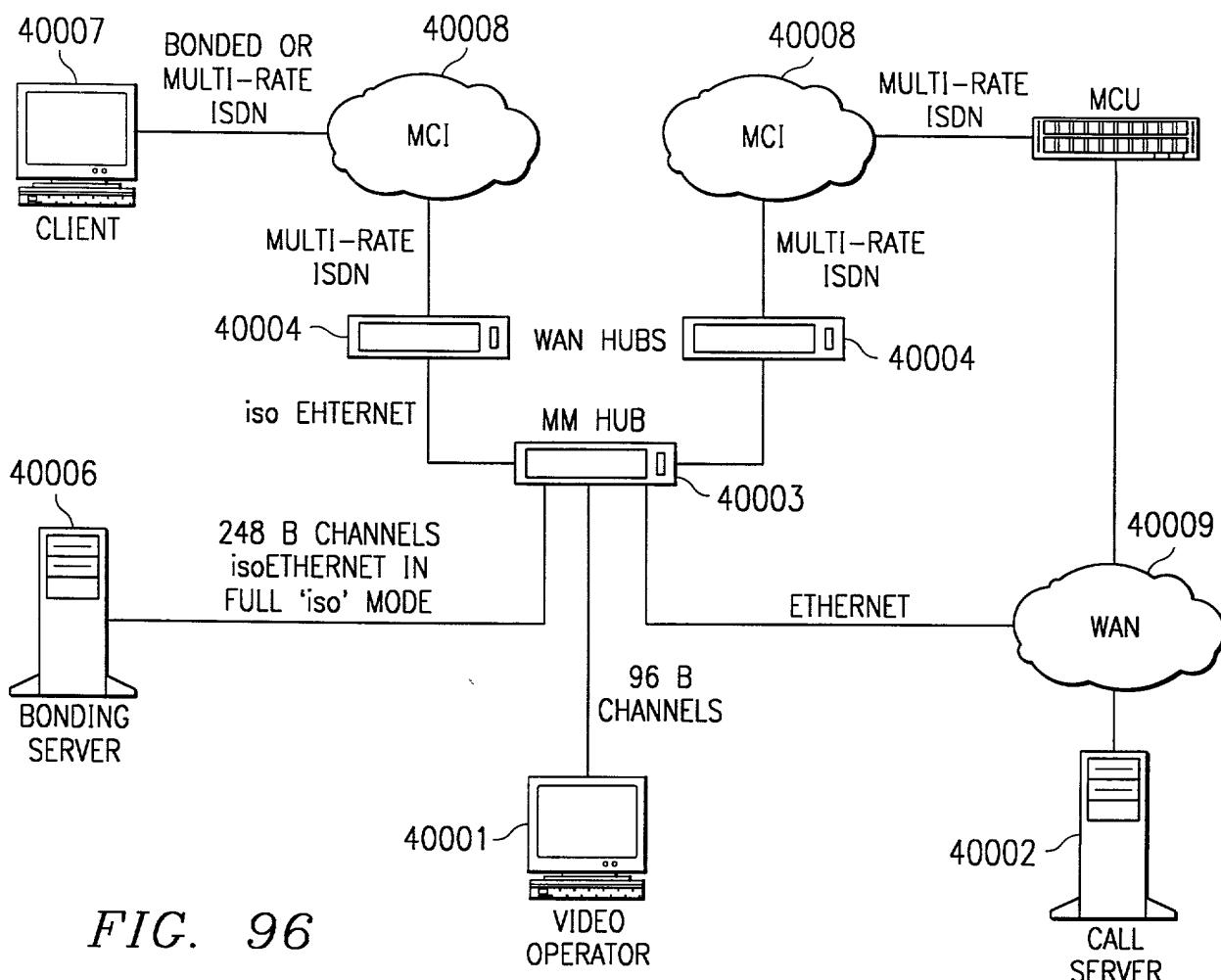
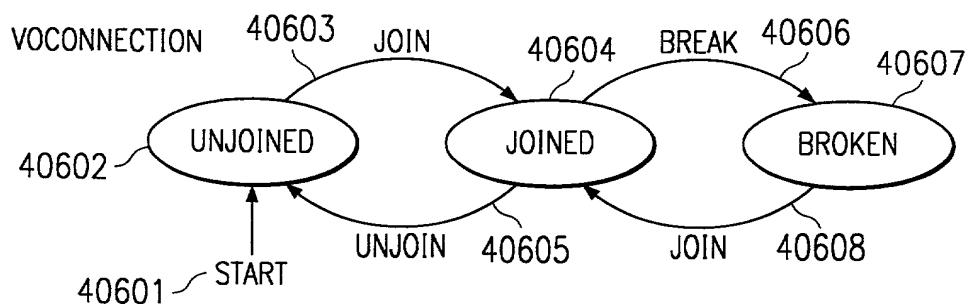


FIG. 96



STATE TRANSITION DIAGRAM FOR  
 VOCONNECTION'S STATE VARIABLE

FIG. 102

40101

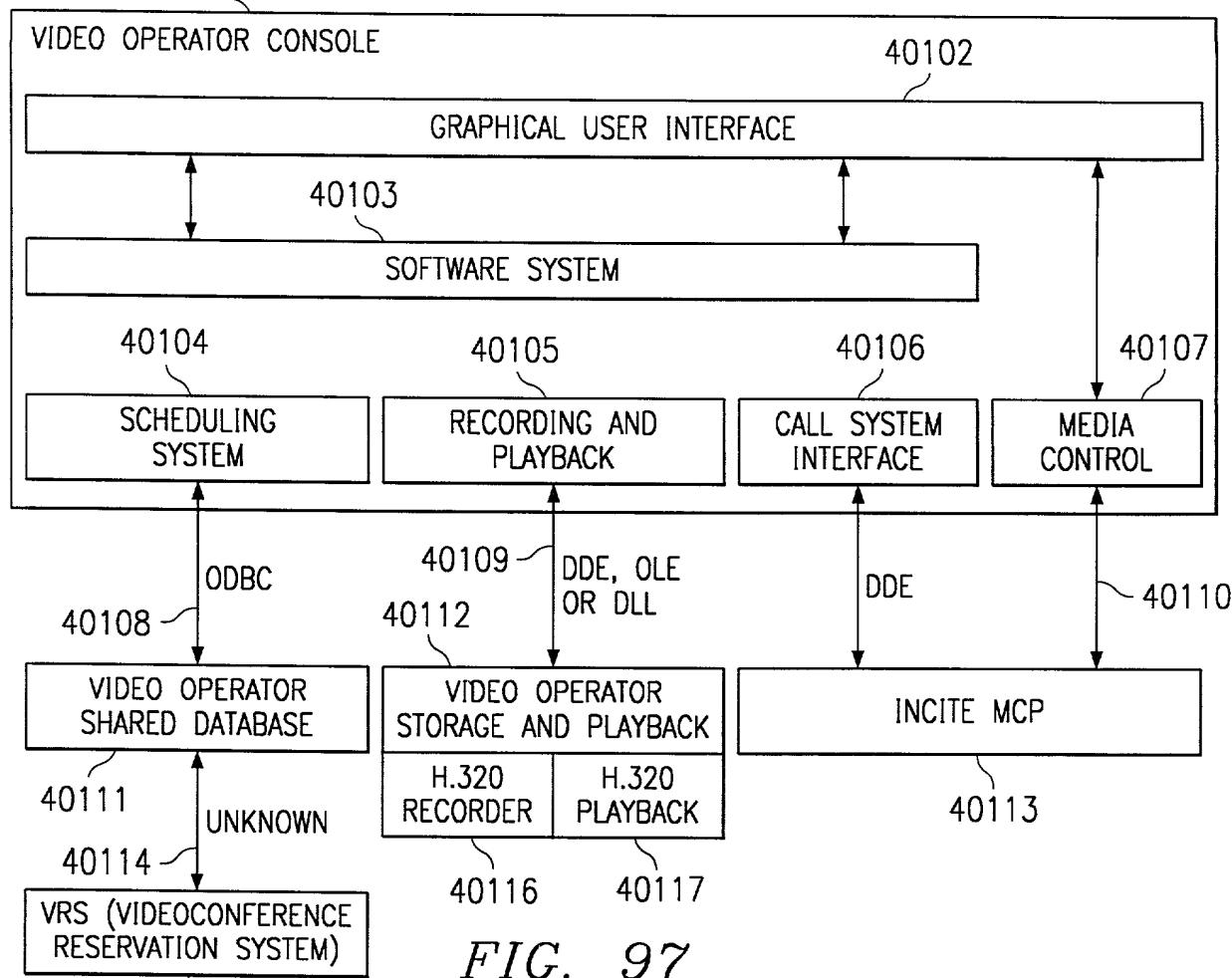


FIG. 97

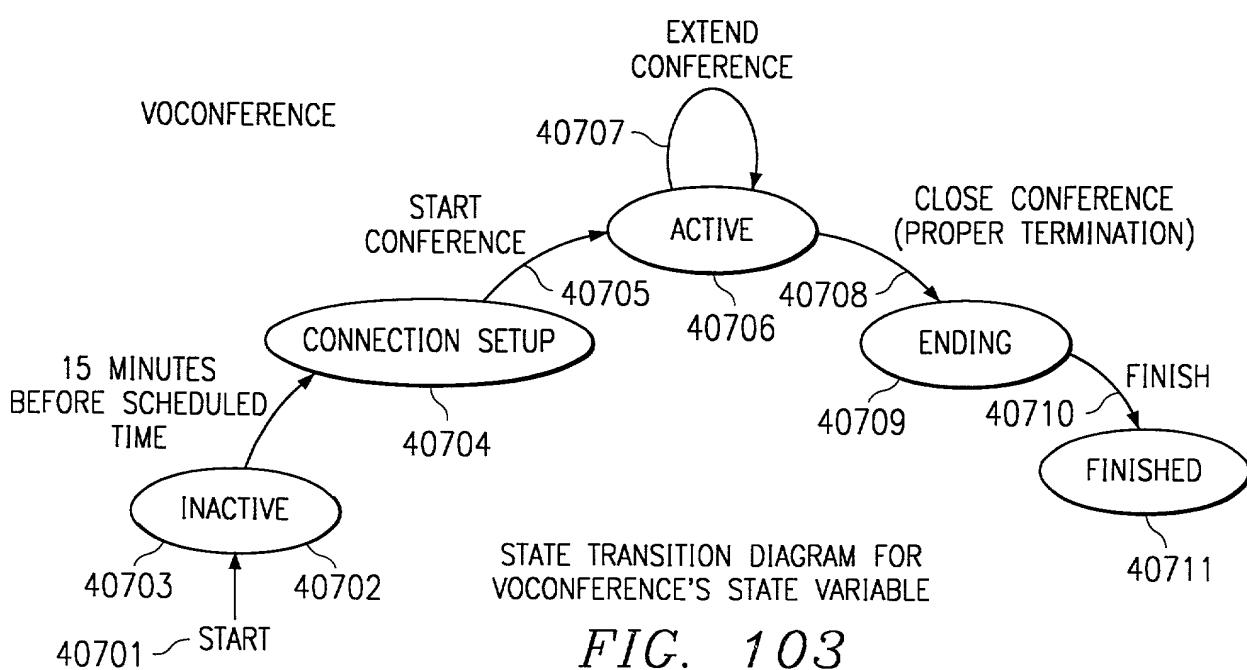
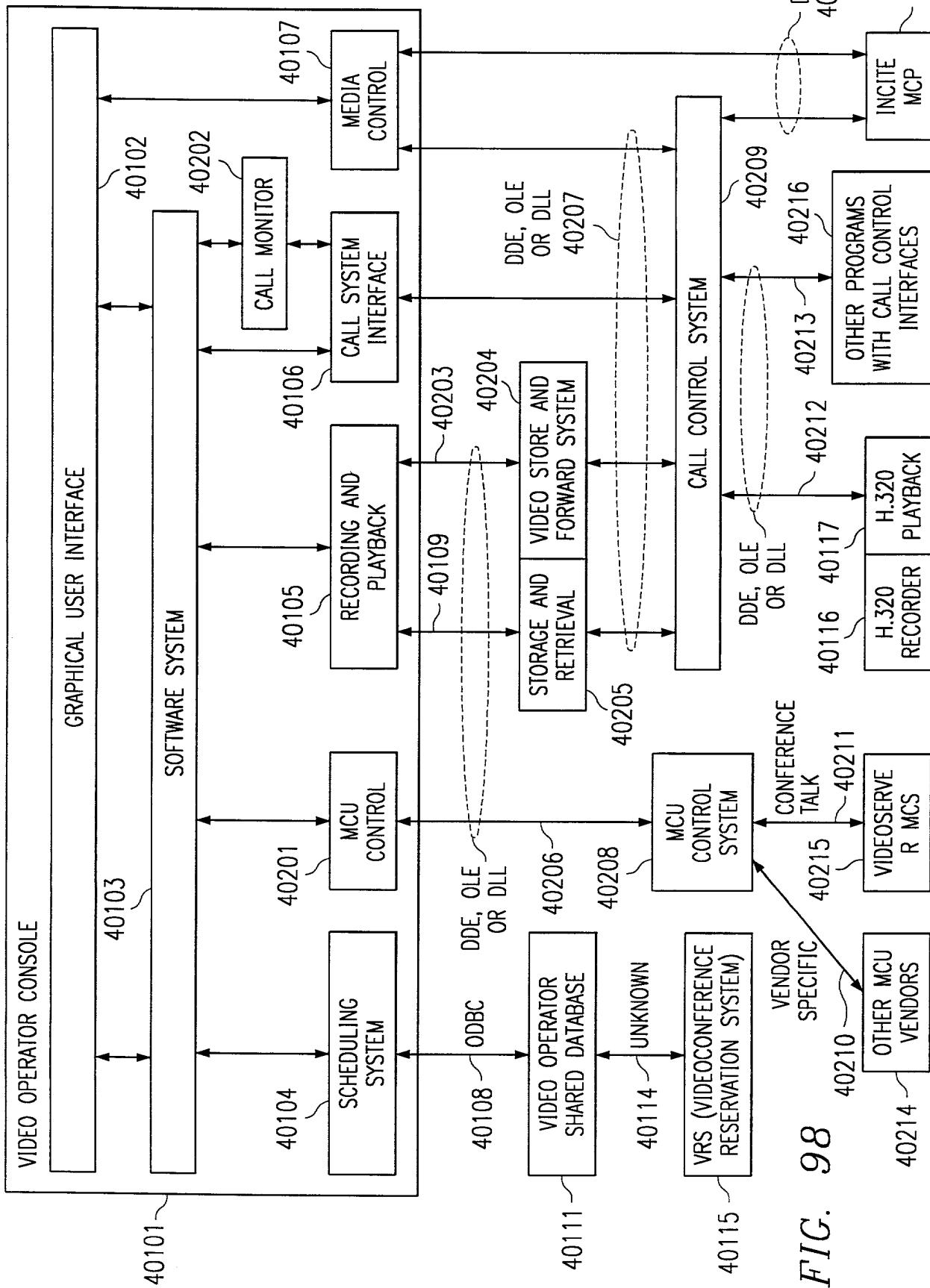


FIG. 103



00079982-0514-01

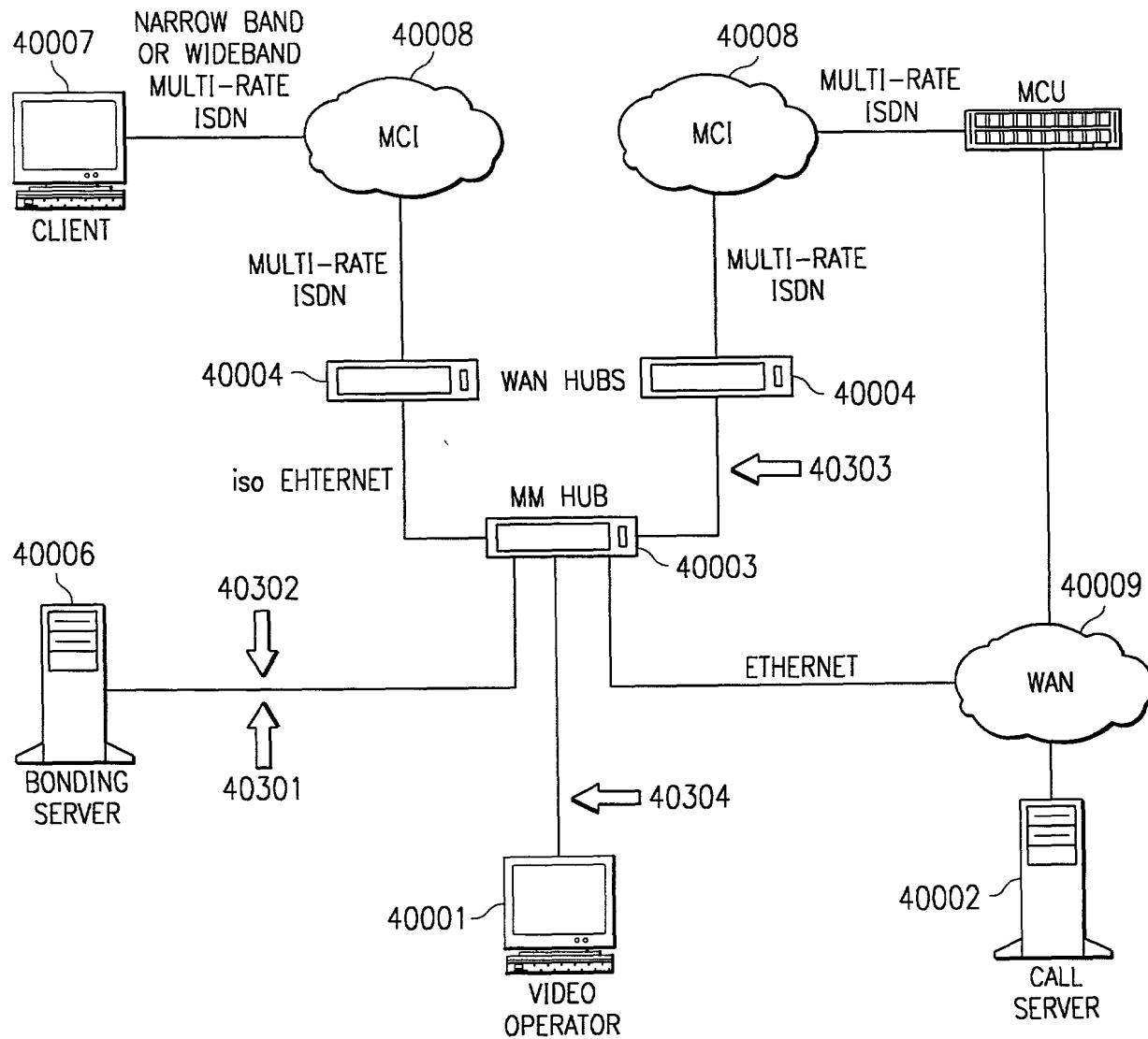
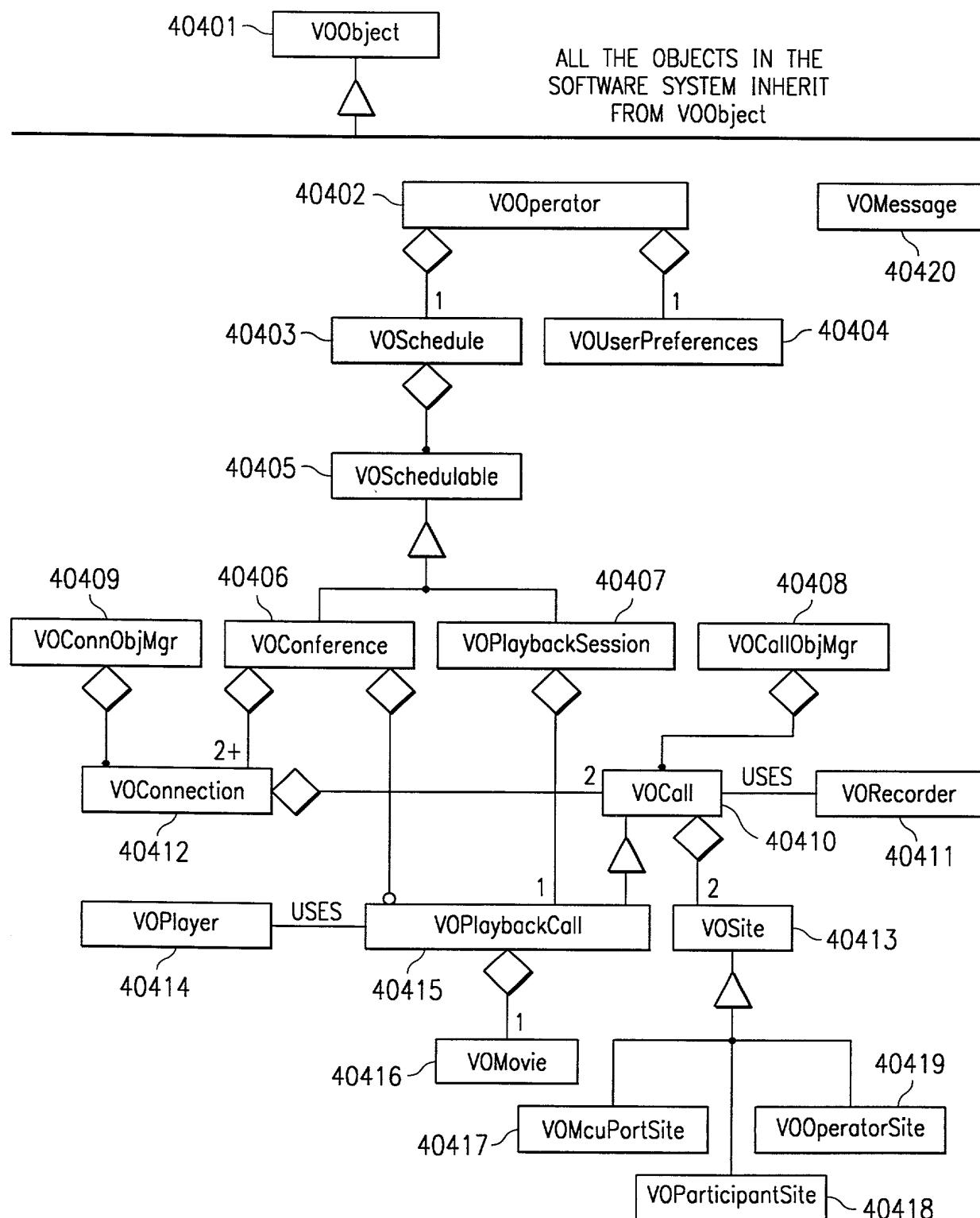


FIG. 99

## VIDEO OPERATOR SOFTWARE SYSTEM CLASSES



## CLASS HIERARCHY FOR VIDEO OPERATOR SOFTWARE SYSTEM

FIG. 100

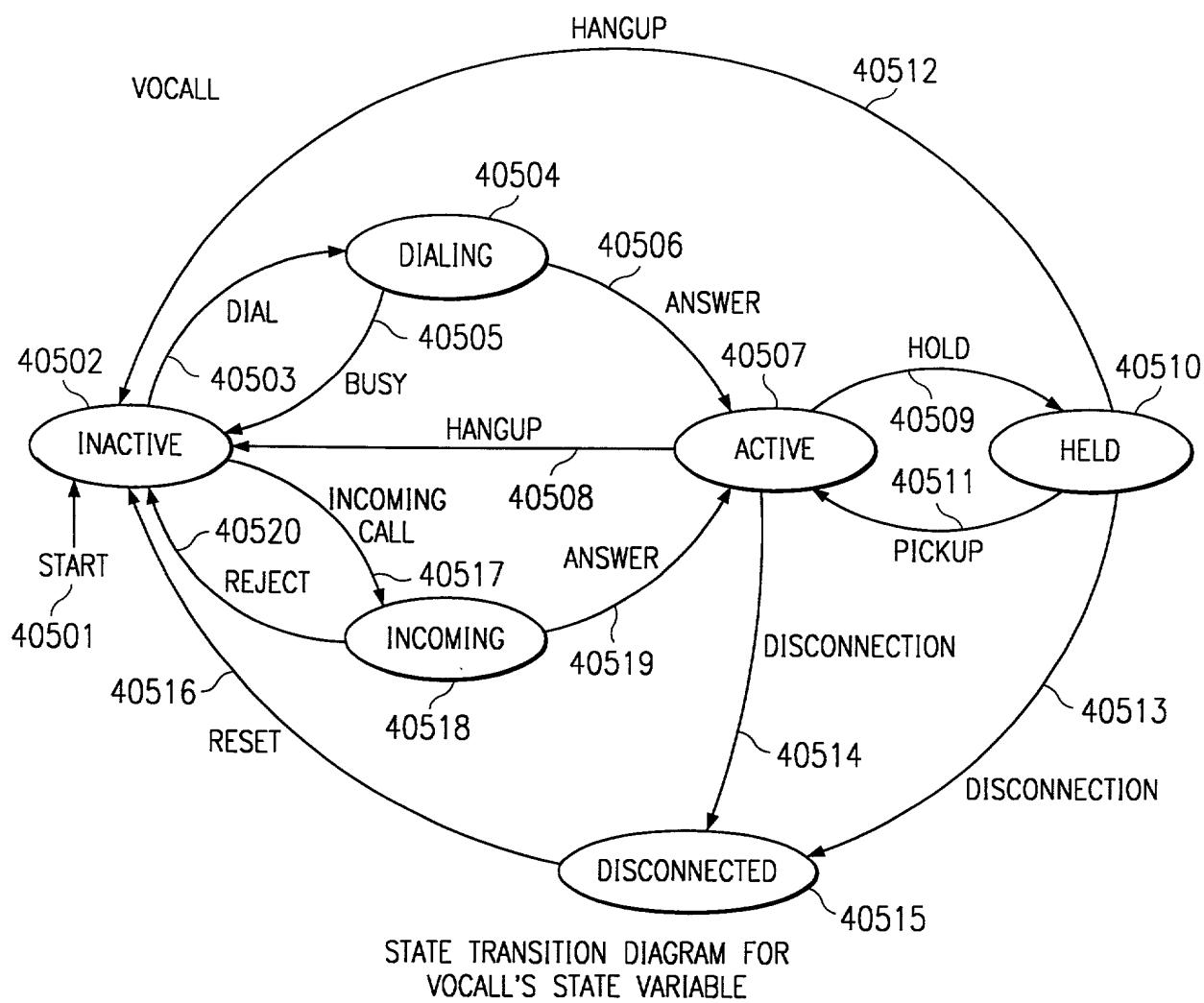


FIG. 101

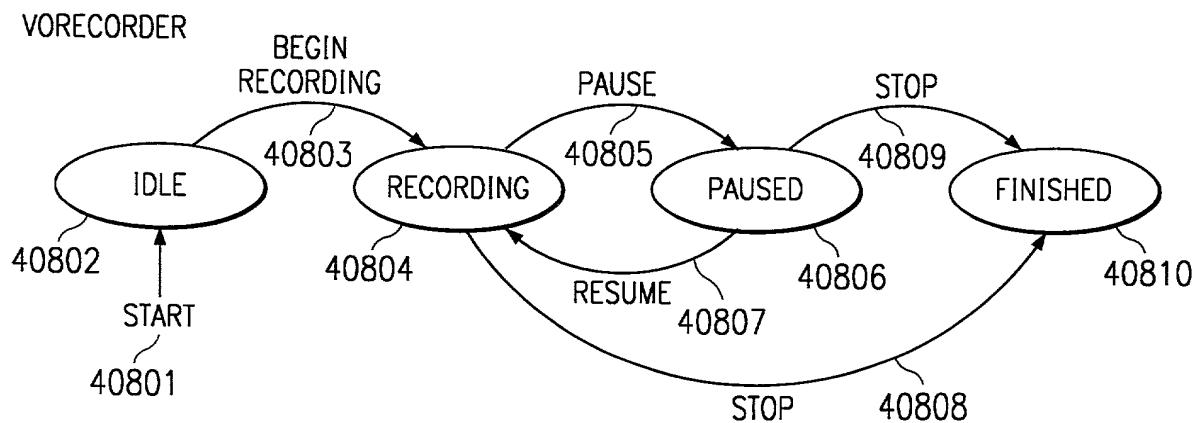
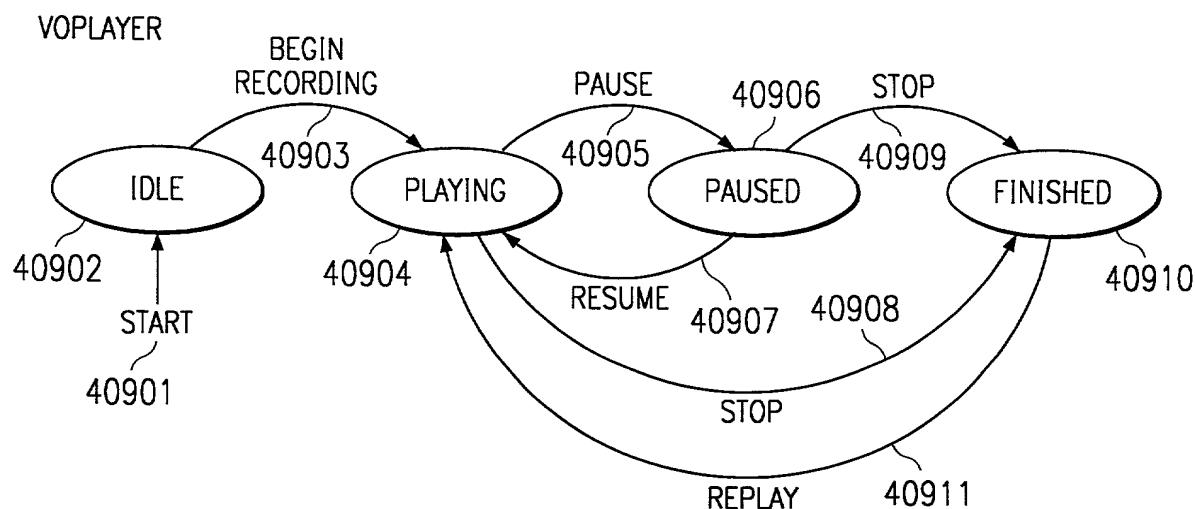
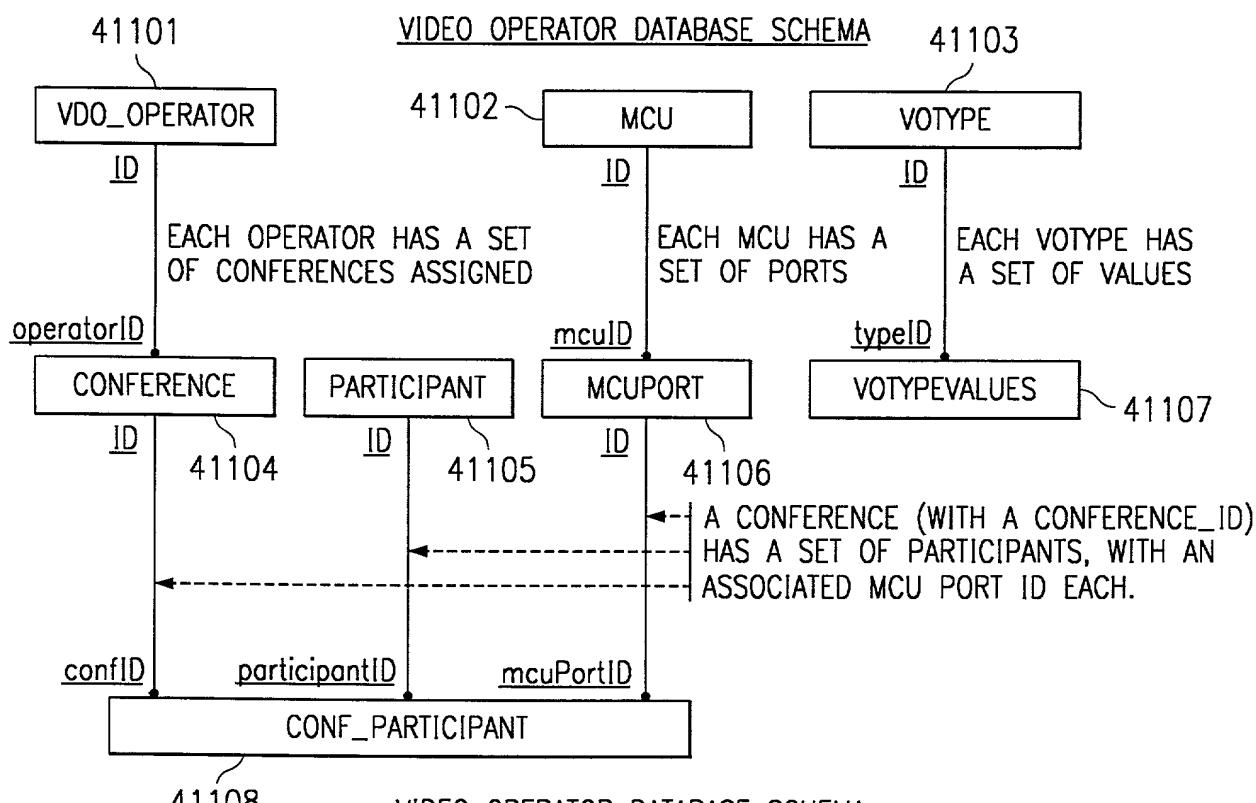


FIG. 104



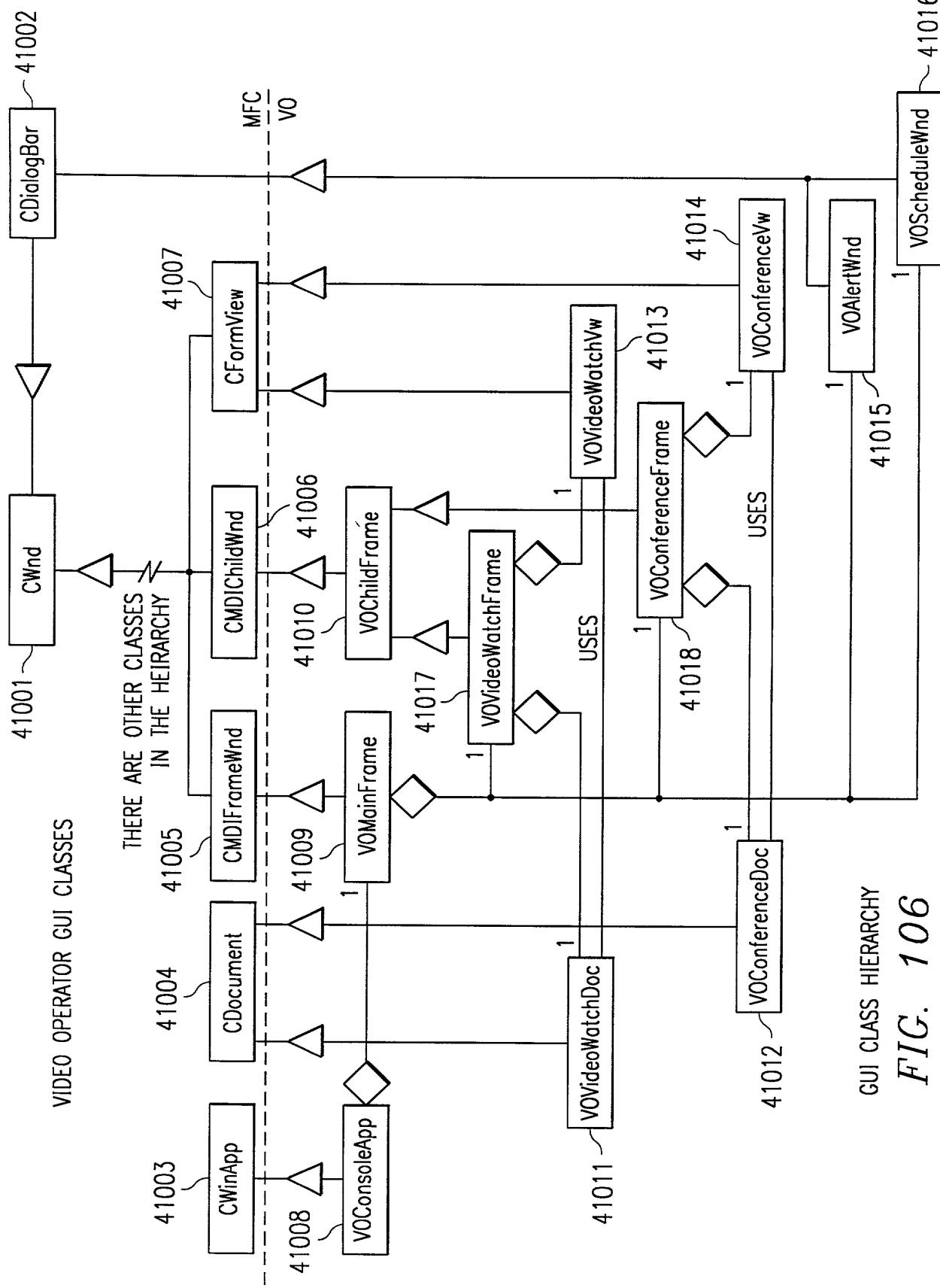
STATE TRANSITION DIAGRAM FOR  
 VOPLAYER'S STATE VARIABLE

*FIG. 105*

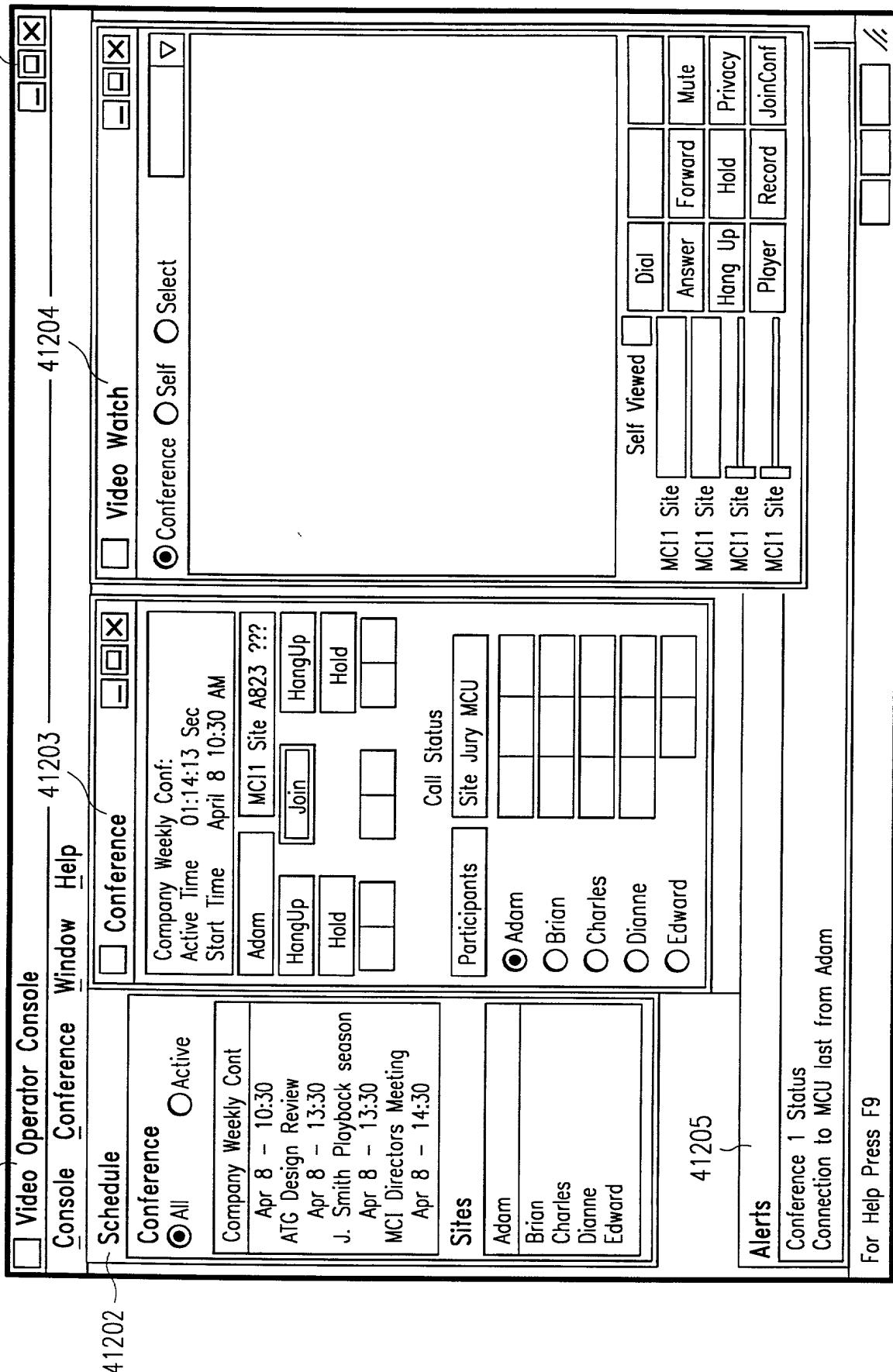


VIDEO OPERATOR DATABASE SCHEMA

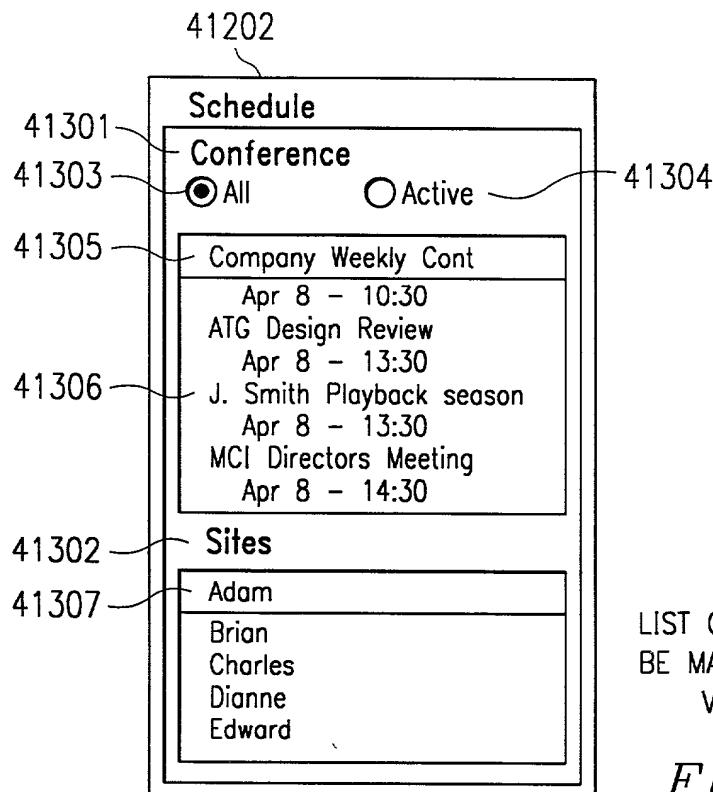
*FIG. 107*



*FIG. 108*  
 MAIN CONSOLE WINDOW

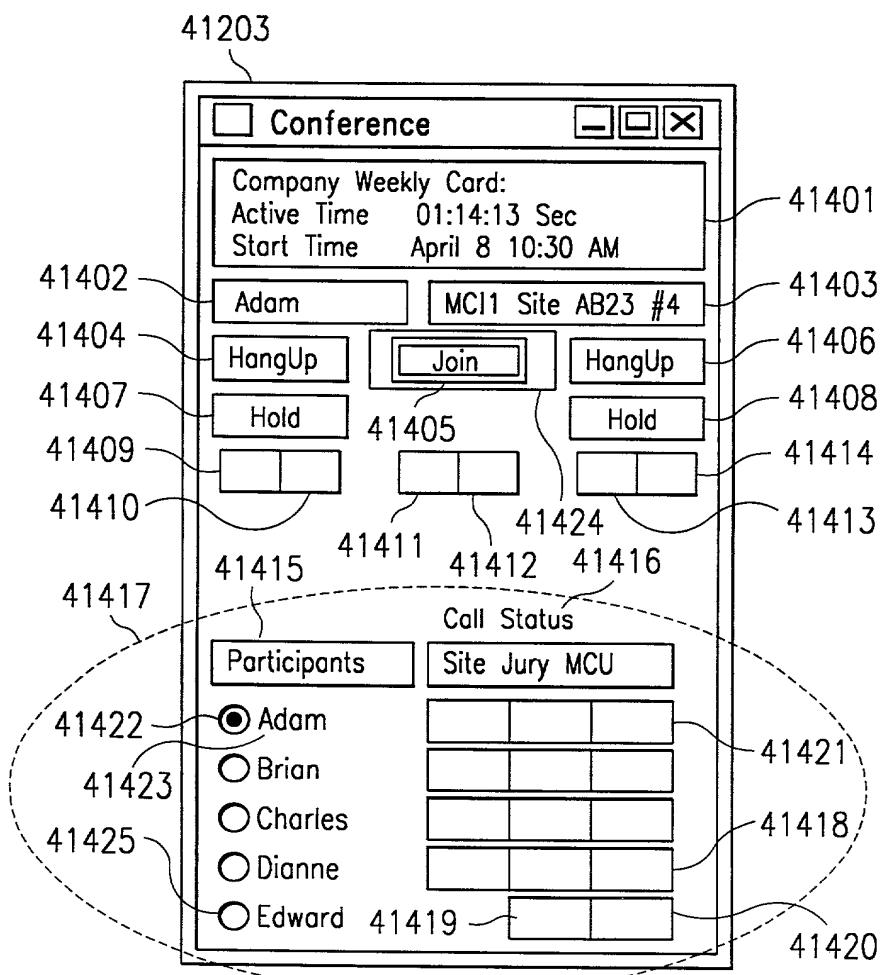


Sheets of Drawings: 131 of 134



LIST OF CONFERENCES TO  
BE MANAGED BY CURRENT  
VIDEO OPERATOR

FIG. 109



LIST OF CONNECTIONS  
FOR A CONFERENCE CALL  
AND CALL STATUSES, WITH  
CONNECTION OPERATIONS

FIG. 110

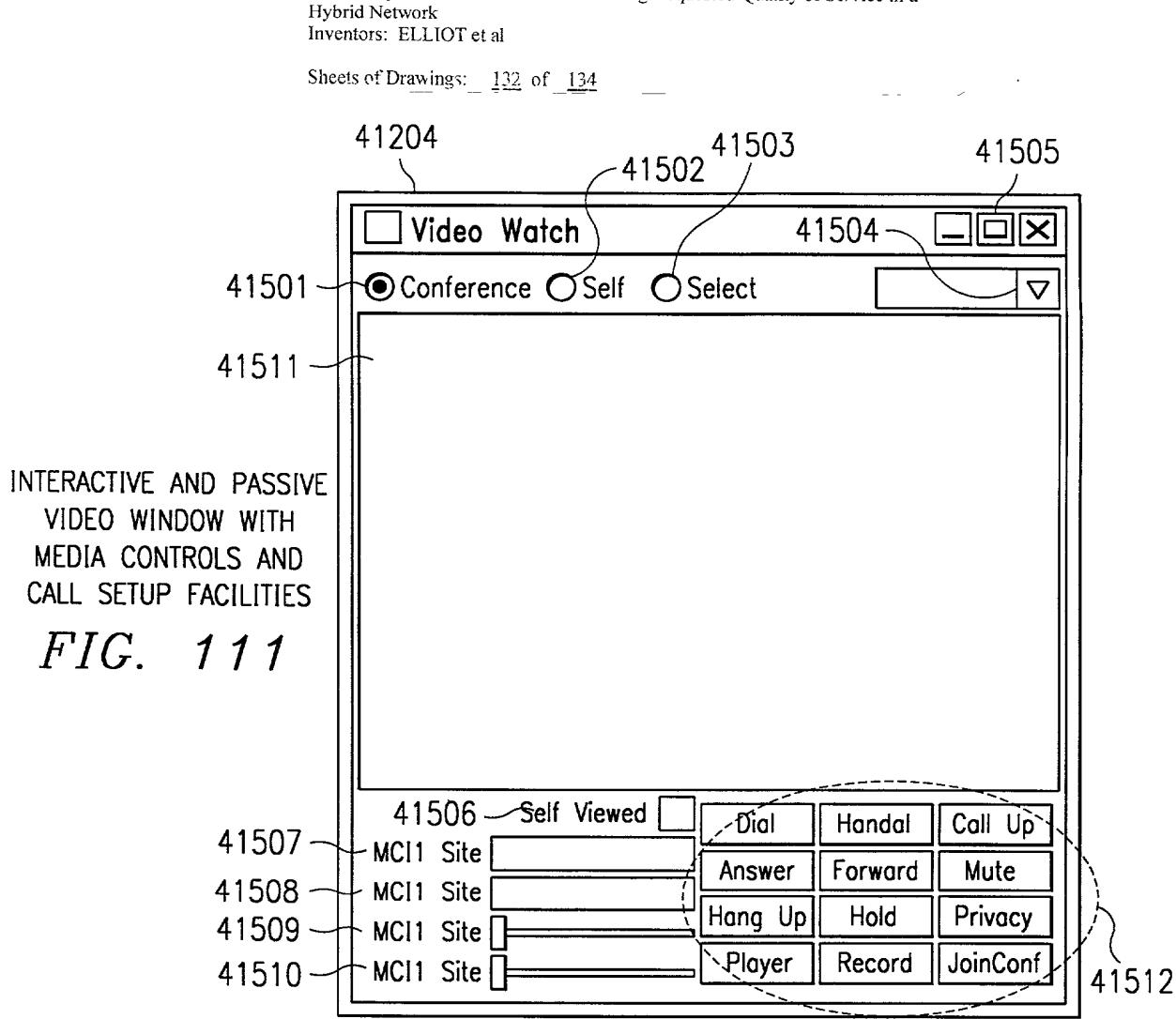


FIG. 111

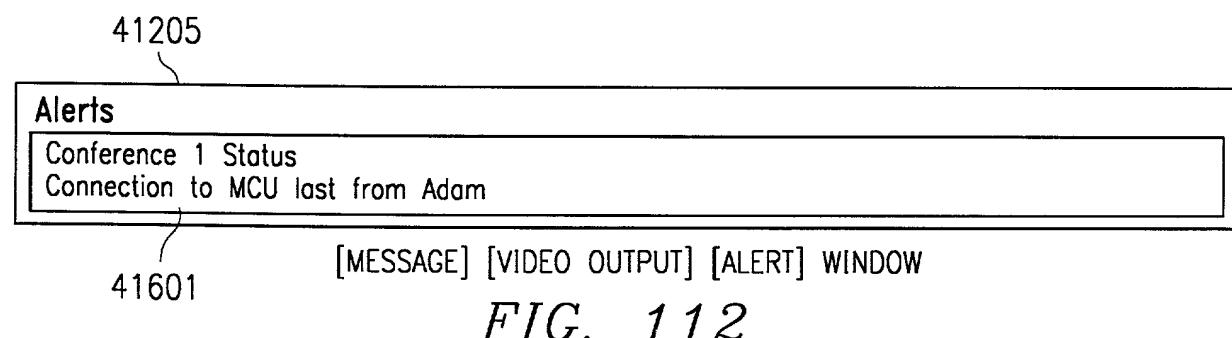


FIG. 113

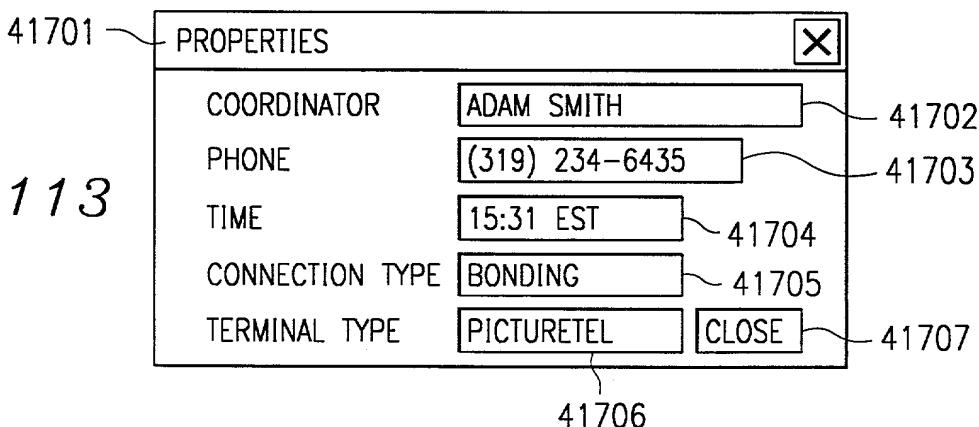


FIG. 114A

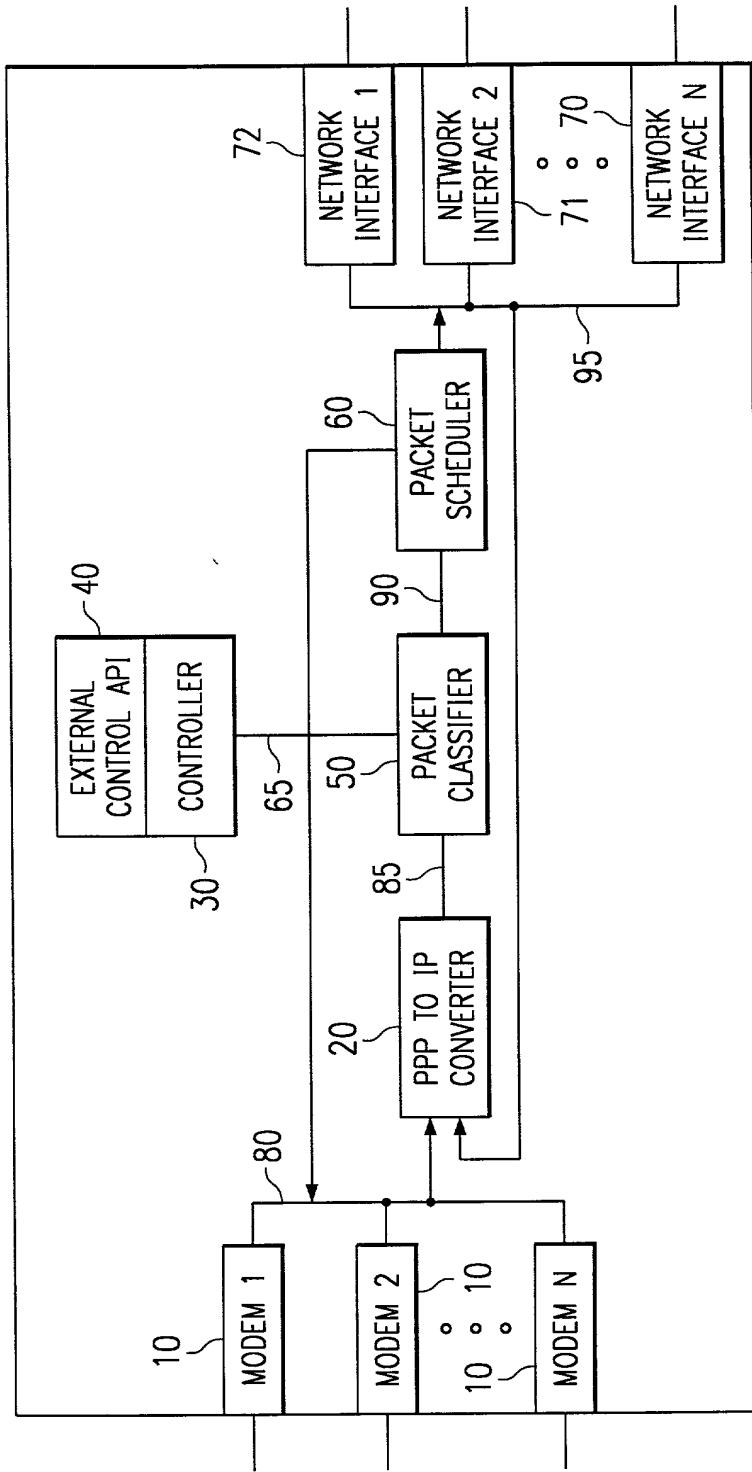


FIG. 114B

